HW-D700
HW-D770S

AV Receiver System

user manual

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Safety Information

Safety Warnings

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

Wiring the Main Power Supply Plug (UK Only)

IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and if it requires replacing, a fuse approved to BS1362 of the same rating must be used. Never use the plug with the fuse cover removed. If the cover is detachable and a replacement is required, it must be of the same colour as the fuse fitted in the plug. Replacement covers are available from your dealer. If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord. Never attempt to insert bare wires directly into a mains socket. A plug and fuse must be used at all times.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:– BLUE = NEUTRAL BROWN = LIVE As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:–The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING : DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH LETTER E OR BY THE EARTH SYMBOL ⏚, OR COLOURED GREEN OR GREEN AND YELLOW.

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Precautions

- Ensure that the AC power supply in your house complies with specifications listed on the identification sticker located on the back of your product.
- Install your product horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5~10cm).
- Do not place the product on amplifiers or other equipment which may become hot.
  Make sure the ventilation slots are not covered.
- Do not stack anything on top of the product.
- To disconnect the product completely from the power supply, remove its plug from the wall outlet.
  - If you leave the product unused for a long period of time, disconnect the plug from the wall outlet.
- During thunderstorms, disconnect the AC plug from the wall outlet. Voltage spikes caused by lightning could damage the product.
- Do not expose the product to direct sunlight or other heat sources. This could cause the product to overheat and malfunction.
- Protect the product from moisture, excess heat, and equipment creating strong magnetic or electric fields (i.e. speakers.).
- Disconnect the power cable from the AC supply if the product malfunctions.
- Your product is not intended for industrial use. It is for personal use only.
- Condensation may occur if you store your product in cold temperatures. If transporting the product during the winter, wait approximately 2 hours until the product has reached room temperature before using.
- The batteries used with this product contain chemicals that are harmful to the environment.
  Do not dispose of batteries in the general household trash.

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ENGLISH

- Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance.
- An administration fee may be charged if either
  a. an engineer is called out at your request and there is no defect in the product (i.e. where you have failed to read this user manual)
  b. you bring the unit to a repair centre and there is no defect in the product (i.e. where you have failed to read this user manual).
- The amount of such administration charge will be advised to you before any work or home visit is carried out.

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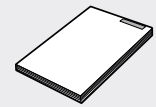
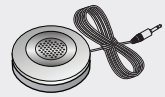
Getting Started

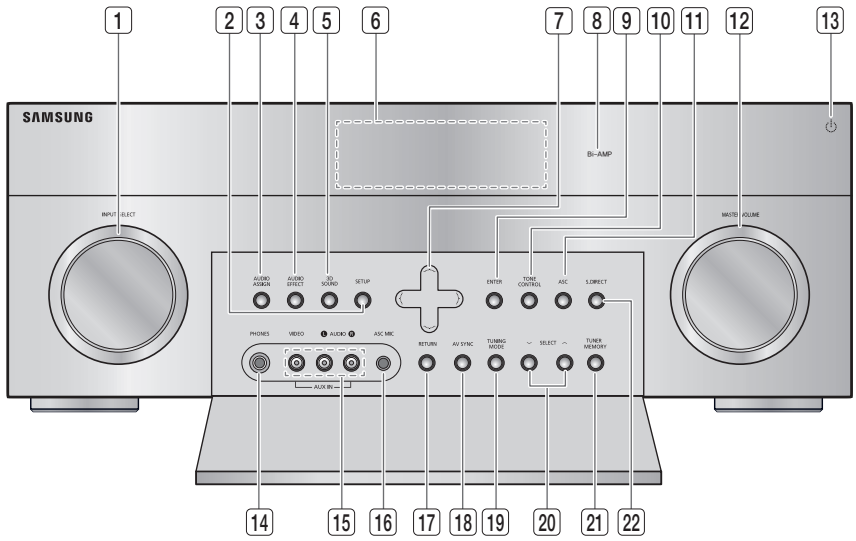
Accessories

Check the box for the supplied accessories listed below.

		
Remote Control/ Batteries (AAA size)	FM antenna	User's manual
		(For Speaker cable)
iPod Dock	ASC microphone	Toroidal Ferrite Core

Description

Front Panel



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1	INPUT SELECT CONTROL	Used to select a source. **FM → TV → BD/DVD → SAT → GAME → AUX → CD → IPOD AUDIO → IPOD VIDEO**
2	SETUP BUTTON	Displays the SETUP menu.
3	AUDIO ASSIGN BUTTON	Toggles to select an input mode for the selected source.
4	AUDIO EFFECT BUTTON	Toggles to select a surround sound mode.
5	3D SOUND BUTTON	Press to apply 3D Sound effect.
6	DISPLAY	Displays the speaker/audio input status, listening mode, etc.
7	UP(∧), DOWN(∨), LEFT(<), RIGHT(>) BUTTONS	Used to move the cursor up, down, left or right. Also used to select detailed options in the AUDIO EFFECT mode and to change the tone level.
8	Bi-AMP INDICATOR	The indicator lights on when you turn on Bi-AMP.
9	ENTER BUTTON	Used to select an item in the SETUP menu.
10	TONE CONTROL BUTTON	Used to set the bass, treble level and tone to on/off.
11	ASC BUTTON	Used to select the Auto calibration mode.
12	MASTER VOLUME CONTROL	Adjusts the volume level.
13	POWER BUTTON (⏻)	Turns the receiver on/off.
14	PHONES JACK	Used to connect a set of headphones.
15	AUX IN JACKS	Auxiliary AV input terminals used to connect a camcorder, portable DVD player or gaming device.
16	ASC MIC JACK	Used to connect the ASC MIC for setting up Auto calibration.
17	RETURN BUTTON	Return to the previous menu.
18	AV SYNC BUTTON	Used to select the Audio Delay Mode.
19	TUNING MODE BUTTON	Used to select the Manual or Preset mode for FM radio.
20	SELECT BUTTON	Used to change the radio frequency.
21	TUNER MEMORY BUTTON	Used to set a preset radio frequency.
22	S.DIRECT BUTTON	Used to select the S.DIRECT mode. (Output the original signal as it is without applying the sound field effect or any other sound effect.)

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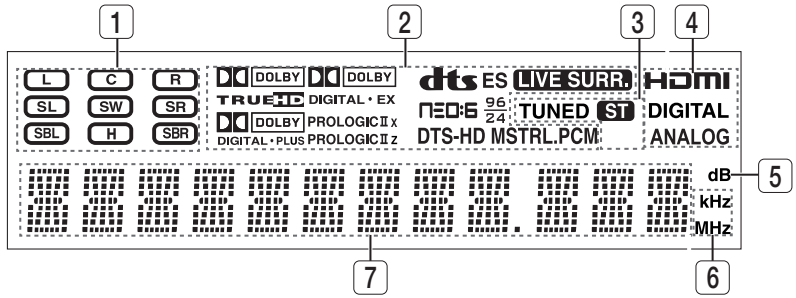
Getting Started

Display



1	SPEAKER INDICATORS	Displays sound producing speakers.
2	LISTENING MODE INDICATORS	Displays the current listening mode and audio source.
3	TUNING INDICATORS	Displays the status of the current radio broadcast.
4	AUDIO INPUT INDICATORS	Displays the audio input signal type of the currently connected external audio source.
5	SPEAKER LEVEL INDICATOR	Displays the speaker level.
6	RADIO FREQUENCY INDICATORS	Displays the current radio frequency range.
7	MESSAGE DISPLAY	Informs you of the status of the receiver.

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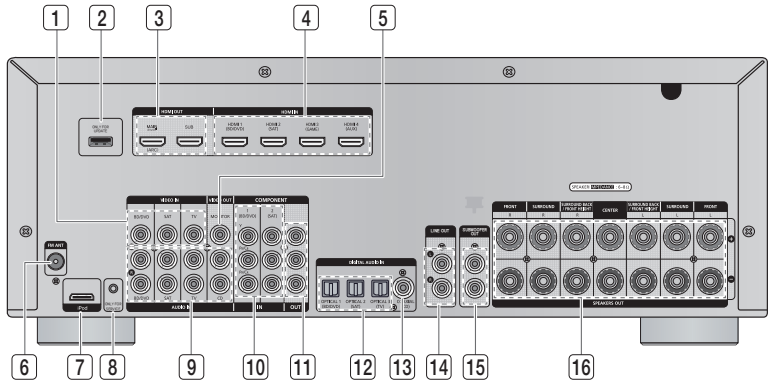
Rear Panel



1	VIDEO IN JACKS	Receives the video signal from a video player (BD/DVD, SAT, TV).
2	USB PORT	Can be only used for firmware upgrades.
3	HDMI OUT JACKS	Outputs digital video and audio signals simultaneously using an HDMI cable.
4	HDMI IN JACKS	Receives digital video and audio signals simultaneously using an HDMI cable.
5	VIDEO OUT JACK	Outputs the video signal to a monitors(TV, Projector etc).
6	FM ANTENNA JACK	Connect the FM antenna.
7	iPod JACK	Receives the audio/video signal from an iPod.
8	ONLY FOR SERVICE JACK	Used for the service repair.
9	AUDIO IN JACKS	Receives the audio signal from a video player (BD/DVD, SAT, TV).
10	COMPONENT VIDEO IN JACKS	Receives the component video signal.
11	COMPONENT VIDEO OUT JACKS	Outputs the component video signal.
12	OPTICAL IN JACKS (DIGITAL AUDIO IN)	Receives the digital optical audio signal.
13	COAXIAL IN JACK (DIGITAL AUDIO IN)	Receives the digital coaxial audio signal.
14	LINE OUT JACKS	Outputs the analogue audio signal to the external amplifier. The digital signal output is not supported.
15	SUBWOOFER AUDIO OUT JACKS	Connect the subwoofers. (Active subwoofer only)
16	SPEAKERS OUT TERMINALS	Speaker connection terminals. The front speaker and surround back speaker ports can be connected to a speaker that supports bi-amplifying. For connecting to the bi-amplifier, refer to page 18.

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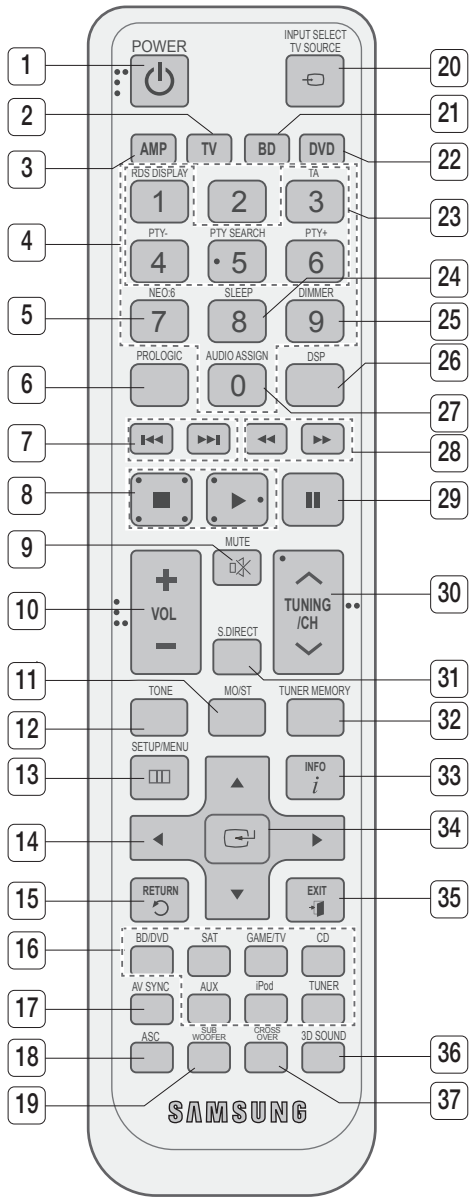
Remote Control

Tour of the Remote Control



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1	POWER BUTTON	Turns the receiver on/off.
2	TV BUTTON	To change to TV mode, press the TV button.
3	AMP BUTTON	To change to AMP mode, press the AMP button.
4	NUMBER BUTTONS	Used to select a TV channel.
5	NEO : 6 BUTTON	Select the desired NEO:6 mode.
6	PROLOGIC BUTTON	Select the desired Dolby Pro Logic audio mode.
7	SKIP BUTTONS	Press to skip backwards or forwards on a connected DVD/BD player or iPod.
8	STOP/PLAY BUTTON	Press to stop/start playback on a connected DVD/BD player or iPod.
9	MUTE BUTTON	Mutes the sound of a connected device.
10	VOLUME CONTROL BUTTONS	Adjusts the volume of the selected device.
11	MO/ST BUTTON	Select MONO or STEREO for radio broadcasts.
12	TONE BUTTON	You can adjust the bass and treble level.
13	SETUP/MENU BUTTON	Displays the SETUP menu.
14	UP/DOWN/LEFT/RIGHT BUTTONS	Used to navigate the menus.
15	RETURN BUTTON	Used to return to the previous menu from the SETUP menu.
16	FUNCTION SELECTOR BUTTONS	Used to select an input source.
17	AV SYNC BUTTON	Used to select the Audio Delay Mode.
18	ASC BUTTON	Used to set the Auto Sound Calibration function.
19	SUBWOOFER BUTTON	Used to select the Subwoofer.
20	INPUT SELECT, TV SOURCE BUTTON	Toggles to find and select an input source. Press to select a connected TV's video source.
21	BD BUTTON	To change to BD mode, press the BD button.
22	DVD BUTTON	To change to DVD mode, press the DVD button.
23	RDS SELECTION BUTTONS	Use the RDS function to receive FM stations.
24	SLEEP BUTTON	Used to set the Sleep Timer.

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25	DIMMER BUTTON	Adjusts the brightness of the display.
26	DSP BUTTON	Used to select the SFE mode.
27	AUDIO ASSIGN BUTTON	Toggles to select an input mode for the selected source.
28	SEARCH BUTTON	Press to search backwards or forwards.
29	PAUSE BUTTON	Pauses playback on a connected device.
30	TUNING/CHANNEL BUTTONS	Used to change the radio broadcasting frequency or TV channel.
31	S.DIRECT BUTTON	Press to select S.DIRECT mode.
32	TUNER MEMORY BUTTON	Used to set a preset radio frequency.
33	INFO BUTTON	Display information on the connected device currently being used.
34	ENTER BUTTON	Used to select an item in the SETUP menu.
35	EXIT BUTTON	Exits the SETUP menu.
36	3D SOUND BUTTON	Press to apply 3D Sound effect.
37	CROSS OVER BUTTON	Press to adjust the crossover frequency.

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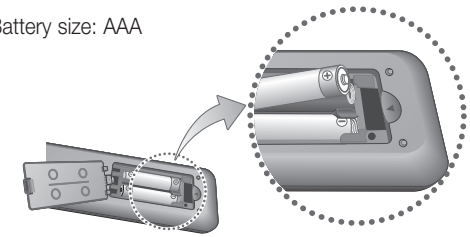
Installing batteries in the Remote Control

* Battery size: AAA



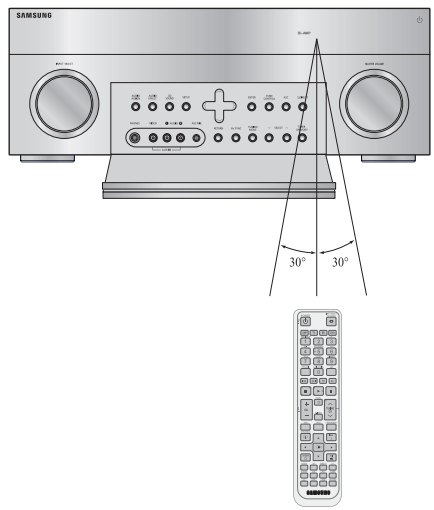
✎ NOTE

Follow these precautions to avoid leaking or cracking cells:

- Place batteries in the remote control so they match the polarity : (+) to (+) and (–) to (–).
- Assuming typical AVR usage, the batteries last for about one year.
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose the batteries to heat or a flame.

Operation Range of the Remote Control

The remote control can be used up to approximately 7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



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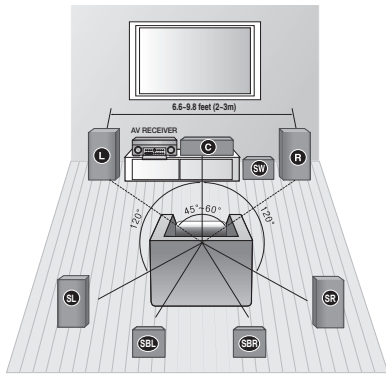
Connections

This section involves various methods of connecting the AV receiver to other external components. Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

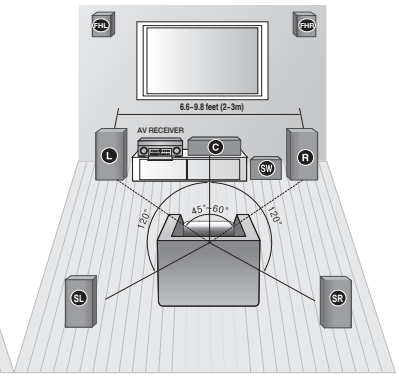
Speaker Positioning

There are two methods for positioning the speakers.
When using Dolby Pro Logic IIz, place the Surround Back Speakers in the FHL, FHR position and connect them to SURROUND BACK/ FRONT HEIGHT terminal(s).

*** Speakers are provided with model HW-D770S only. Model HW-D700 does not come with speakers.**



L, R, C, SW, SL, SR, SBL, SBR (Dolby Pro Logic IIx)



L, R, C, SW, SL, SR, FHL, FHR(Dolby Pro Logic IIz)

Position of AV Receiver

Place the AV Receiver on a dedicated stand or rack.

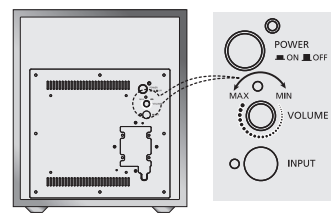
Subwoofer SW

The position of the subwoofer is not so critical. Place it anywhere you like.

Subwoofer function (HW-D770S only)

Active subwoofer with integrated 150W amplifier provides rich bass sound.

- Connect the **SW OUT** terminal of the amplifier to the **INPUT** terminal of the subwoofer speaker.
- Press the **POWER** button on the rear side of the subwoofer to turn the power on.
- Using the subwoofer's VOLUME control, you can set the desired bass level (See page 39 "Setting the Speaker Level" to set the subwoofer level in the menu).



Front Speakers L R

Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
Place the speakers so that their tweeters will be at the same height as your ears.
Align the front face of the front speakers with the front face of the centre speaker or place them slightly in front of the centre speaker.

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Centre Speaker C

It is best to install it at the same height as the front speakers.
You can also install it directly over or under the TV.

Surround Speakers SL SR

Place these speakers behind your listening position.
If there isn't enough room, place these speakers so they face each other.
Place them about 60 to 90cm above your ears, facing slightly downward.
Unlike the front and centre speakers, the surround speakers are used to handle mainly sound effects and sound will not come from them all the time.

Surround Back Speakers SBL SBR (Using Dolby Pro Logic IIx)

If you are using two rear centre speakers, place them behind the listening position.
Place the surround back speaker about 70 cm to 1 m.

Front Height Speakers FHL FHR (Using Dolby Pro Logic IIz)

When using Dolby Pro Logic IIz, place the Surround Back Speakers on the FHL, FHR position above the front L and front R speakers at least 1 m above each one.

✎ NOTE

- When you attach the speakers to the wall, make sure to fasten them tightly so they do not fall off.

Speaker Configuration

For the best surround-sound experience, you should connect seven speakers and a powered subwoofer. The following table shows which channels you should use based on the number of speakers you have.

2 speakers	3 speakers	4 speakers	5 speakers	7 speakers (DPL IIx)	7 speakers (DPL IIz)
L	L	L	L	L	L
R	R	R	R	R	R
	C		C	C	C
		SL	SL	SL	SL
		SR	SR	SR	SR
				SBL	FHL
				SBR	FHR

✎ NOTE

- No matter how many speakers you use, a powered subwoofer is recommended for powerful and solid bass.
- If you place a speaker near your TV set, screen colour may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

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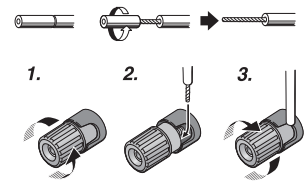
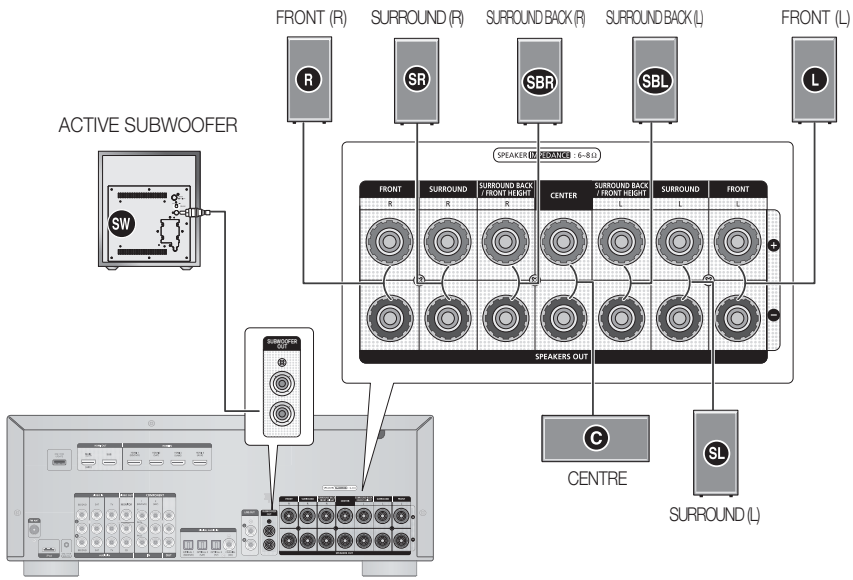
Connecting the Speakers

Connecting Speaker Wire

1. Loosen the knob by turning counterclockwise.
2. Insert the bare part of the wire into the hole in the side of each terminal.
3. Tighten the knob by turning clockwise to secure the wire.





Model HW-D700	
AV Receiver	HW-D700

Model HW-D770S	
AV Receiver	HW-D700
FRONT SPEAKER	PS-FC770S
CENTRE SPEAKER	PS-CC770S
SURROUND SPEAKER	PS-RC770S
SURROUND BACK SPEAKER	PS-BC770S
ACTIVE SUBWOOFER	PS-AW730

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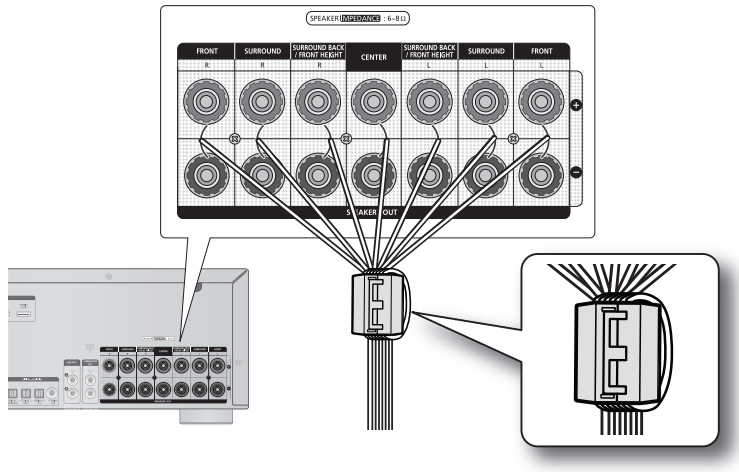
NOTE

- Speakers are provided with model HW-D770S only. Model HW-D700 does not come with speakers.
- One Active Subwoofer is provided, if you would like to use another, purchase it from the retailer where you bought the player and connect it to the other SUBWOOFER OUT Jack.
- Keep the subwoofer speaker out of reach of children to prevent them from inserting their hands or objects into the duct (hole).
- Never touch speaker terminals while the power is on. Doing so could result in electric shock.
- Make sure the polarities (+ and -) are correct.
- If you want to use two active subwoofer speakers, connect both subwoofer speakers into the SUBWOOFER OUT terminals in the rear panel.
- When using Dolby Pro Logic IIz, connect the Front Height speakers (FHL,FHR) to the Surround Back Speaker terminals.

Attaching the Toroidal Ferrite Core to the Speaker Cable



1. Open the toroidal ferrite cores by pulling the lock lever.
2. Arrange all the speaker cables that are connected to the unit and make a loop.
   - Attach the ferrite core as close as possible to the unit.
3. Place the toroidal ferrite core on the looped speaker cable as shown, and then press it closed it until you hear a click.

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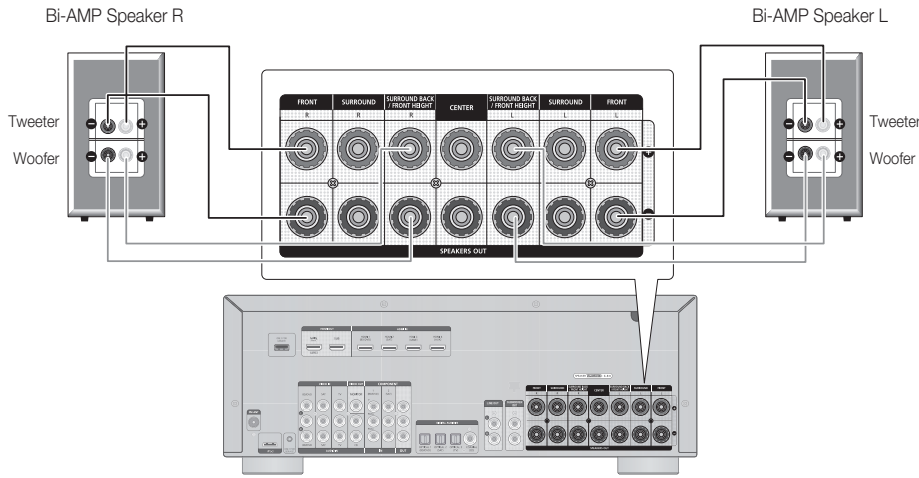
Connections

Connecting the Bi-AMP Speaker

Connect the tweeter (high range) port and woofer (low range) to the front port and surround back speaker port respectively as appropriate. Then, you can use the bi-amplification feature that supports enriched high range and base tones.



1. Connect the FRONT L connector (rear side of main unit) to the Tweeter port in the front left speaker.
2. Connect the FRONT R connector (rear side of main unit) to the Tweeter port in the front right speaker.
3. Connect the SURROUND BACK L connector (rear side of main unit) to the Woofer port in the front left speaker.
4. Connect the SURROUND BACK R connector (rear side of main unit) to the Woofer port in the front right speaker.

! CAUTION

- If Bi-amp is active, you may encounter a restricted access if you have not removed the shorting bar (like a jumper) in both tweeter and subwoofer ports in the front speaker.
- Before you can use bi-amp, ensure that you use a speaker that supports bi-amplifying.

✎ NOTE

- To enable the Bi-Amp feature, you must set 7.1 CHANNEL to Bi-AMP in SETUP menu. See page 37.
- With the Bi-amp feature, you can use up to 5.1 channels for speaker output in the main unit.

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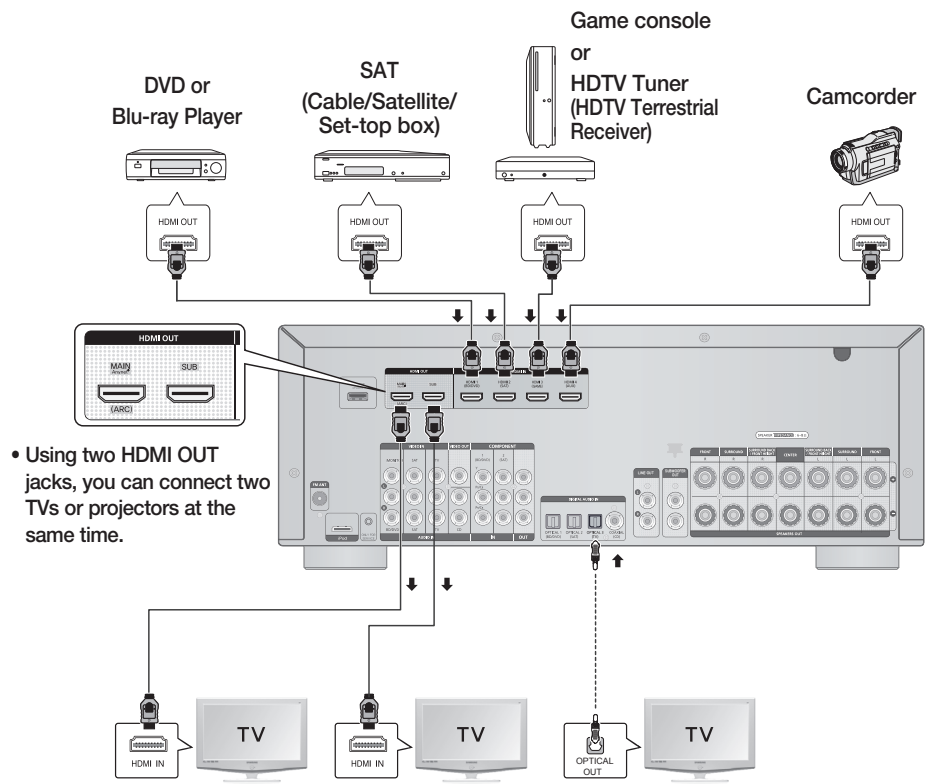
Connecting External Devices/your TV via HDMI

HDMI is a digital standard interface for connection to such devices as a TV, projector, DVD player, Blu-ray player, set-top box and more.
HDMI removes any loss of signal from analogue conversion, enabling you to enjoy video and audio sound quality as it was originally created in the digital source.
By connecting through the HDMI(High-Definition Multimedia Interface) interface, you can play back digital video and audio.



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Connections

MAIN Jack

- Supports Anynet+ and ARC.
- Supports Full HD and 3D.

SUB Jack

- Does not support Anynet+ and ARC.
- When both Main and SUB are connected at the same time, output signal of SUB will be the same to that of Main, which matches specifications of the TV connected to the Main jack.

JACK	Anynet+	ARC	Resolution	3D
MAIN	O	O	1080p	O
SUB	X	X	1080p	O

NOTE

- When a 3D TV is connected to the Main and a 2D TV is connected to SUB at the same time, both Main and Sub output 3D signal and the TV connected to SUB will display nothing.
- If your TV supports ARC function, connect to ARC support port of TV. (To enable ARC function for the TV connected to SUB jack, a TV that supports ARC function should have been connected to the MAIN jack.)

High-bandwidth Digital Content Protection System (HDCP) support

To play digital contents through the HDMI connection, both the connected external device and TV must support High-bandwidth Digital Content Protection System (HDCP). This product supports HDCP.

Compatibility with a TV Supporting HDMI	
A TV with an HDMI jack.	Video/Audio
A TV with a DVI-D jack (TV supporting HDCP)	Video
A TV with a DVI-D jack (TV not supporting HDCP)	-

NOTE

- Audio from SACD discs will not be heard with this connection. To play a DVD disc whose copyright is protected by CPPM, use a player supporting CPPM.
- The quality of the audio output through the HDMI jack (sampling frequency and bit rate) may be limited by the performance of the connected device.
- Since HDMI connection supports both video and audio, you don't have to connect an additional audio cable.

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HDMI Function

Using Anynet+ (HDMI-CEC)

Anynet+ is a function that enables you to control other Samsung Devices with your Samsung TV's remote control. Anynet + can be used by connecting this AV Receiver to a SAMSUNG TV using an HDMI Cable. This is only available with SAMSUNG TVs and SAMSUNG AV Products that support Anynet+.

1. Connect the AV receiver to a Samsung TV with an HDMI cable. (See page 19)
2. Set the Anynet+ function on your TV.
   (See the TV instructions manual for more information.)
   - You can operate the volume on the AV receiver by using Volume buttons on the TV remote control.

To Turn on Anynet+

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **HDMI SETUP**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **HDMI ANYNET+**, and then press the **ENTER** button.
5. Press the ▲▼ buttons to set **ANYNET+** to **ON**, and then press the **ENTER** button.

To exit setup mode

- Press the **SETUP/MENU** or **EXIT** button on the remote control.
  SETUP OFF appears on the display and Setup Mode is exited.

✎ **NOTE**

- If you use an HDMI cable to connect a Samsung TV to your AV Receiver, you can operate the AV receiver using the TV's remote control. This function is available only in connection with Samsung TV and DVD player supporting Anynet + (HDMI-CEC).
- Please check your TV for the **ANYNET+** logo. If your TV has an **ANYNET+** logo, then it supports the Anynet+ function.
- When you are making Anynet+ connection, do not connect more than two AV receivers (Anynet+ installed). Otherwise, it can cause a malfunction.

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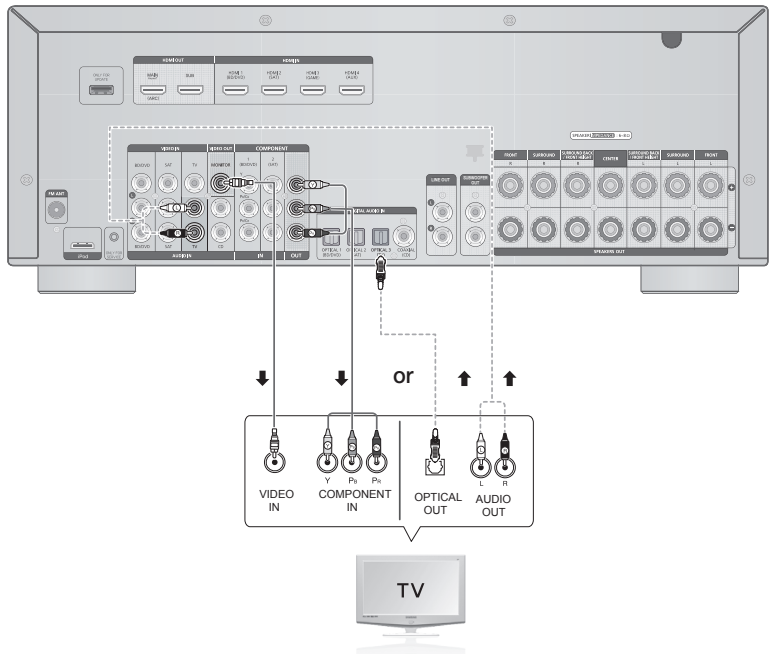
Connections

Connecting to your TV



Video Connection

If your television is equipped with Component Video inputs, connect a Component video cable (not supplied) from the Component Video Output (P_R, P_B and Y) jacks on the back of your AV Receiver to the Component Video Input jacks on your TV.

OR

Connect the Video cable (not supplied) from the VIDEO OUT (MONITOR) jack on the back of your AV Receiver to the Video Input jack on your TV.

Audio Connection

Connect the Digital Input (OPTICAL 3) on your AV Receiver to the Digital Output of the TV.

OR

Connect AUDIO IN (TV) on your AV Receiver to the Audio Out of the TV.

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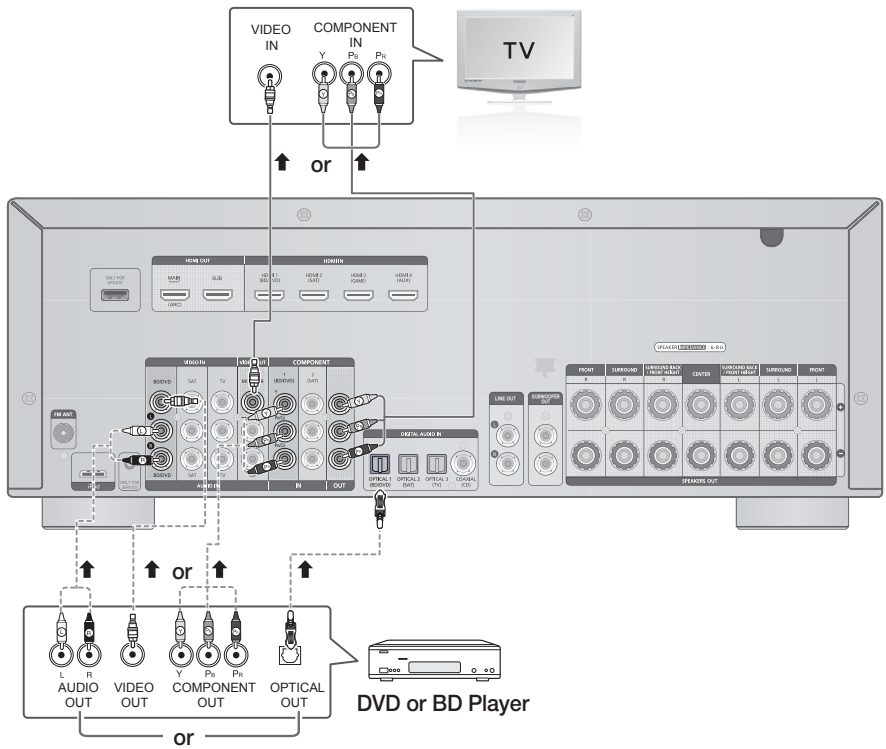
Connecting a DVD or BD(Blu-ray) Player



Video Connection

Connect a Component video cable (not supplied) from the COMPONENT IN (BD/DVD) (P_R, P_B and Y) jacks on the back of your AV Receiver to the Component Video Output jacks on your DVD/BD player.

OR

Connect a Video cable (not supplied) from the VIDEO IN (BD/DVD) jack on the back of your AV Receiver to the Video Output jack on your DVD/BD player.

Audio Connection

Connect the Digital Input (OPTICAL 1) on your AV Receiver to the Digital Output of the DVD/BD player.

OR

Connect AUDIO IN (BD/DVD) on your AV Receiver to the Audio Out of the DVD/BD player.

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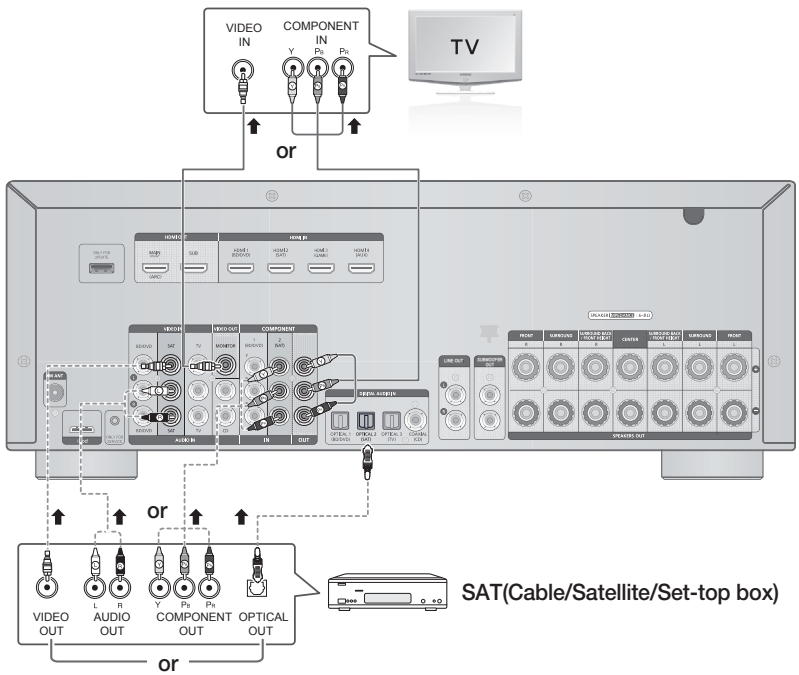
Connections

Connecting a Cable, Satellite or Set-top Box



Video Connection

Connect a Component video cable (not supplied) from the COMPONENT IN (SAT) (P_R, P_B and Y) jacks on the back of your AV Receiver to the Component Video Output jacks on your SAT.

OR

Connect a Video cable (not supplied) from the VIDEO IN (SAT) jack on the back of your AV Receiver to the Video Output jack on your SAT.

Audio Connection

Connect the Digital Input (OPTICAL 2) on your AV Receiver to the Digital Output of the SAT.

OR

Connect AUDIO IN (SAT) on your AV Receiver to the Audio Out of the SAT.

NOTE

- Disconnect the power plug from the outlet if you will not use this unit for a long period of time.
- If the cable/set-top box has only one audio output jack, connect it to either the right or left audio input jack of the main unit. Connect the audio cable's red plug to the red jack and white cable to the white jack.

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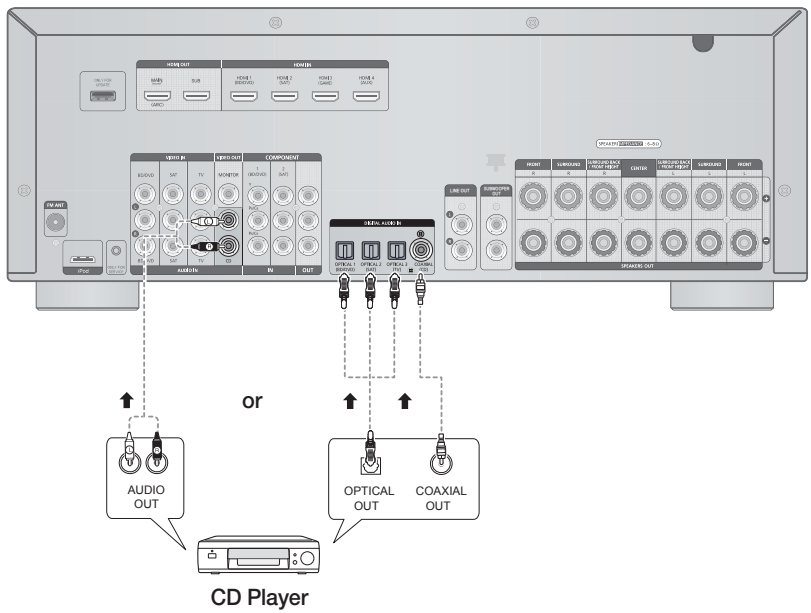
Connecting a CD Player



Audio Connection

Connect the Digital Input (COAXIAL, OPTICAL1~3) on your AV Receiver to the Digital Output of the CD Player.

OR

Connect AUDIO IN (CD) on your AV Receiver to the Audio Out of the CD player.

NOTE

- Connect the audio cable's red plug to the red jack and white cable to the white jack.
- If the CD player has only one audio output jack, connect it to either the right or left audio input jack of the main unit.
- If the CD player has only OPTICAL digital output jack, connect it to OPTICAL1 or 2 JACK of the main unit. Please see "Audio Setup" at Page 35.

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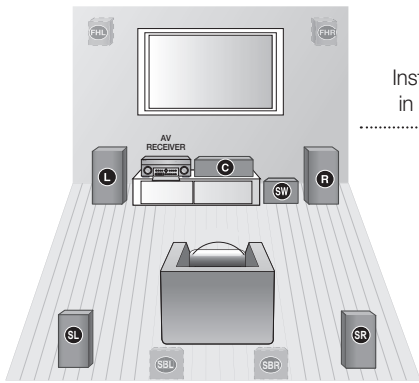
Connections

Connecting Using the External Amplifier (Ex. Second Room)

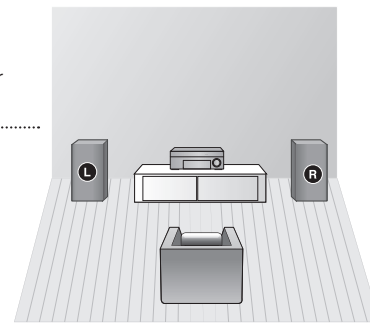
This setup allows 7.1-channel playback in your main listening room and 2-channel stereo playback in Second Room, with a same source in each room.

- Use an RCA audio cable to connect the AV receiver's LINE OUT L/R jacks to an analogue audio input on your Second Room amplifier.
- Connect your Second Room speakers to the speaker terminals on your Second Room amplifier.



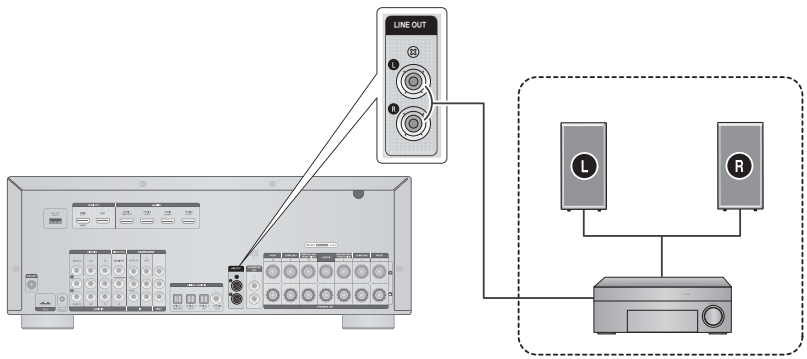
Install speaker in main space

Install speaker
in sub space



Second Room

Connecting using the external amplifier



Second Room

NOTE

- Usually, the secondary amplifier is used in a second room.
- Line Out only outputs analogue signal.
- Line Out does not provide the Volume Control.
- The external amplifier with volume control (like AV Receiver or Pre-Main Amplifier) should be used.
- The Volume can be controlled in the external amplifier.

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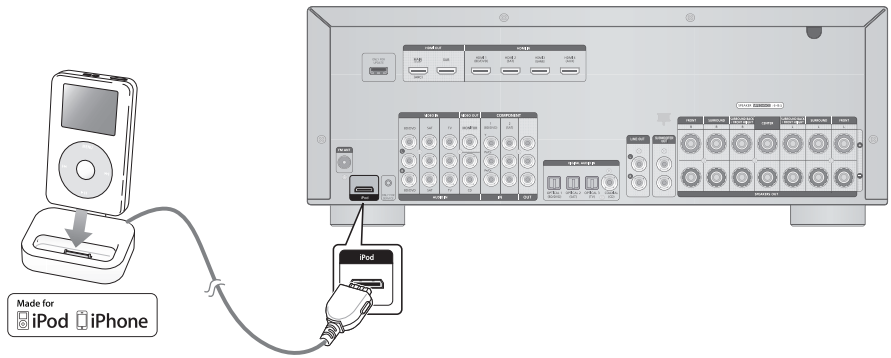
Connecting an iPod

You can listen to audio from an iPod through the main unit. For iPod operation with your receiver, see this page and pages 55 ~ 56.



1. Connect the iPod dock connector to the iPod jack on your reciever.
2. Place the iPod in the Dock.
   - If you want to play a movie stored in your iPod player, you should set the player's **TV Out** option to **On** before inserting it into the dock. See pages 55 ~ 56.
3. Press the **iPod** button on the remote control.
   - You can also use the **INPUT SELECT** on the main unit.
     The mode switches as follows :
     FM → TV → BD/DVD → SAT → GAME → AUX → CD → IPOD AUDIO → IPOD VIDEO

NOTE

- You must have the VIDEO (Monitor or TV) output connected to your TV to view iPod video. See page 22.
- Adjust the volume to a moderate level before you connect your iPod and AV Receiver.
- When the unit is powered on and you connect an iPod, the unit will charge your iPod's battery.
- Make sure to connect the dock connector so that the label "**SAMSUNG**" faces upward.

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Disconnecting an iPod

Follow the steps below to prevent damage to an iPod and data when disconnecting from your AV receiver.

1. Use the **INPUT SELECT** on the main unit to switch to a mode other than **IPOD AUDIO** or **IPOD VIDEO**.

OR

1. Turn off the AV Receiver.
2. Disconnect the iPod player from the iPod dock, or remove the iPod dock connector from the AV receiver.

iPod/iPhone Models You Can Use with This Product

- iPod touch (3rd generation)
- iPod touch (2nd generation)
- iPod touch (1st generation)
- iPod classic
- iPod with video
- iPod with dock connector
- iPod with Click Wheel
- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)
- iPod nano (1st generation)
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

NOTE

- "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPods and has been certified by the developer to meet Apple performance standards.
- "Made for iPhone" means that an electronic accessory has been designed to connect specifically to iPhones and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.
iPhone is a trademark of Apple Inc.

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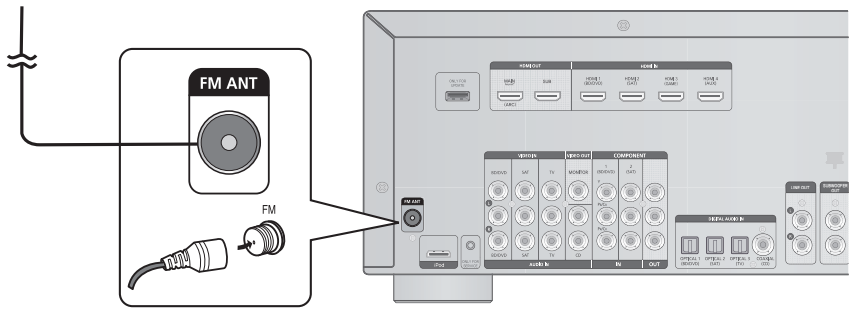
Connecting the FM Antenna

1. Connect the FM antenna supplied to the FM ANTENNA terminal as a temporary measure.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.



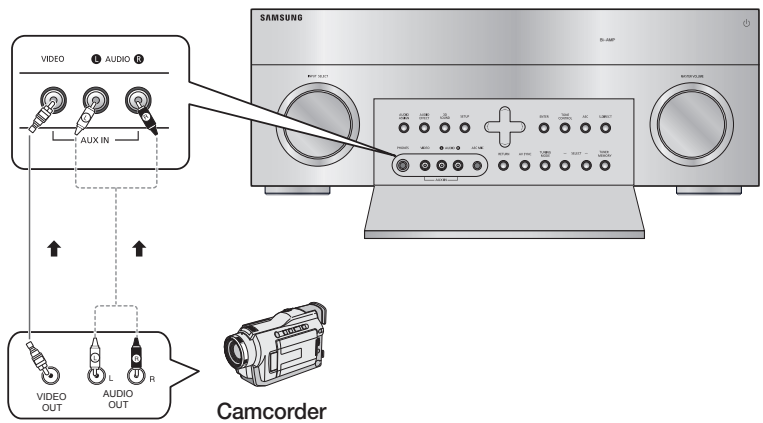
FM antenna (supplied)

NOTE

- Do not place the antenna cable close to the power cord. Keep it as far away as possible.
- If you experience poor FM reception, use an external antenna.

Connecting AUX Components

You can connect external devices you use for a short time (camcorder, game console, mobile equipment, etc.) to the front of this unit for convenience.



Camcorder

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Setup

For your convenience, you can set this AV receiver's features for the best use.

Before Using the AV Receiver

Turning On/Off

Connect the power plug to the outlet.
This unit will set to Standby mode.

Press the **POWER** button on the main unit for 2 seconds.

- This unit will be turned on.
- You can also turn the unit on/off by pressing the **POWER** button on the remote control.

Remote Control Functions

You can operate your AMP (this AV receiver)/ TV and BD(Samsung only)/DVD player with this remote control. See pages 59 ~ 60 for more details.

To Select a Function

Method 1

Press the **INPUT SELECT** button on the remote control.

- Each time you press this button, **FM** → **TV** → **BD/DVD** → **SAT** → **GAME** → **AUX** → **CD** → **IPOD AUDIO** → **IPOD VIDEO** will be selected in turn.

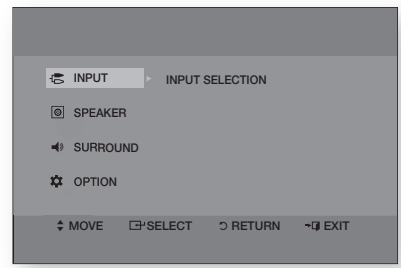
Method 2

Press the **BD/DVD**, **SAT**, **GAME/TV**, **CD**, **iPod** or **TUNER** button.

- You can directly select the desired function.

Home Menu

Use the HDMI cable to connect between main unit and monitor. Press **SETUP/MENU** to display the "INPUT" message on the display screen. You will see the OSD menu in a few seconds.



NOTE

- The OSD menu will be displayed only if you use the HDMI cable for the connection.
- For using the OSD menus, refer to using the menus on the display screen.
- The OSD (On Screen Display) may change in this product after you upgrade the software version.

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Selecting Digital/HDMI/Analogue

You can listen to sound of analogue, HDMI, optical input using this unit.

1. Press the **INPUT SELECT** button on the remote control to select a desired function (BD/DVD, SAT, TV, CD, AUX). See page 30.
2. Press the **AUDIO ASSIGN** button on the remote control to select the audio input source of the external device you have connected.
   - Each time you press this button, the input mode changes as follows:

- **For BD/DVD function**

DVD HDMI1 → DVD ANALOG → DVD OPTIC1

- **For SAT function**

SAT HDMI2 → SAT ANALOG → SAT OPTIC2

- **For TV function**

TV OPTIC3 → TV ARC → TV ANALOG

- **For CD function**

CD COAXIAL → CD ANALOG

- **For AUX function**

AUX HDMI4 → AUX ANALOG

NOTE

- You can also change the input mode by pressing the **AUDIO ASSIGN** button on the front of your AV Receiver.
- You can enjoy Dolby Digital or DTS if you connect the digital audio output jack of an external audio component to the optical or coaxial digital audio input jack on the main unit.
- For the TV function, the TV ARC menu will be displayed only if an ARC-compliant TV is connected.

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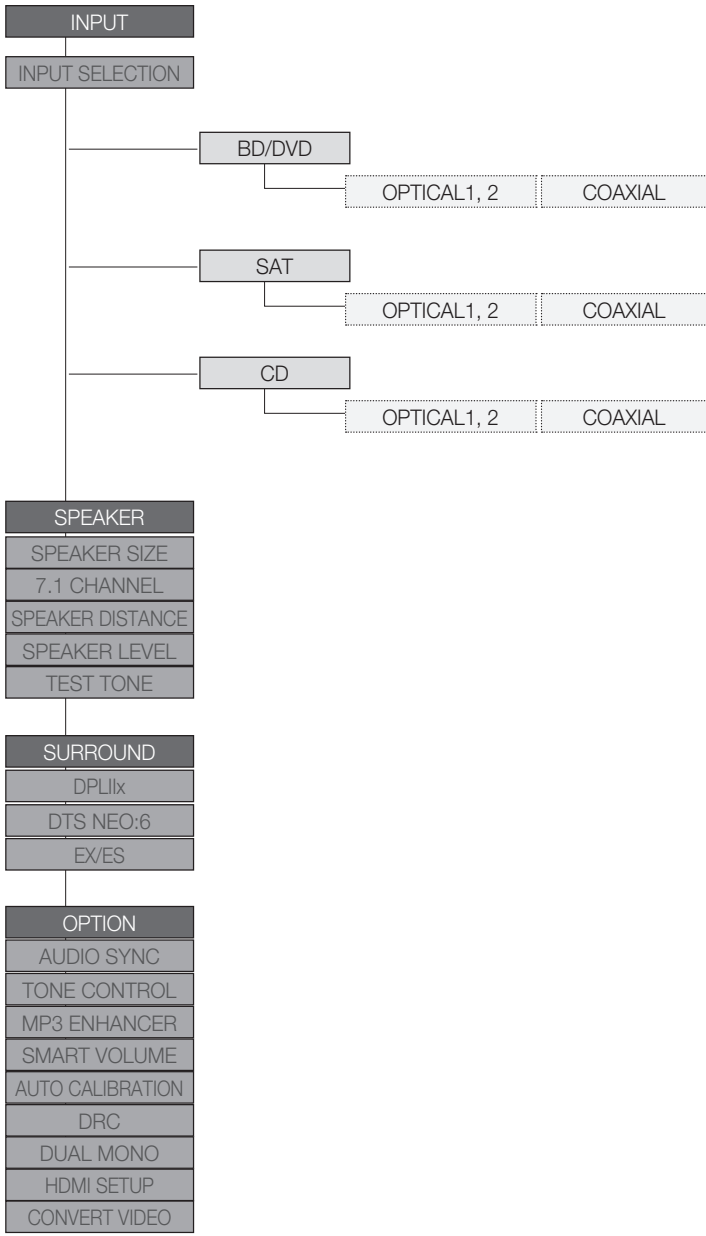
Setup

Setup Menu Tree

Here's a quick look at how the setup menus are organized on your AV Receiver.



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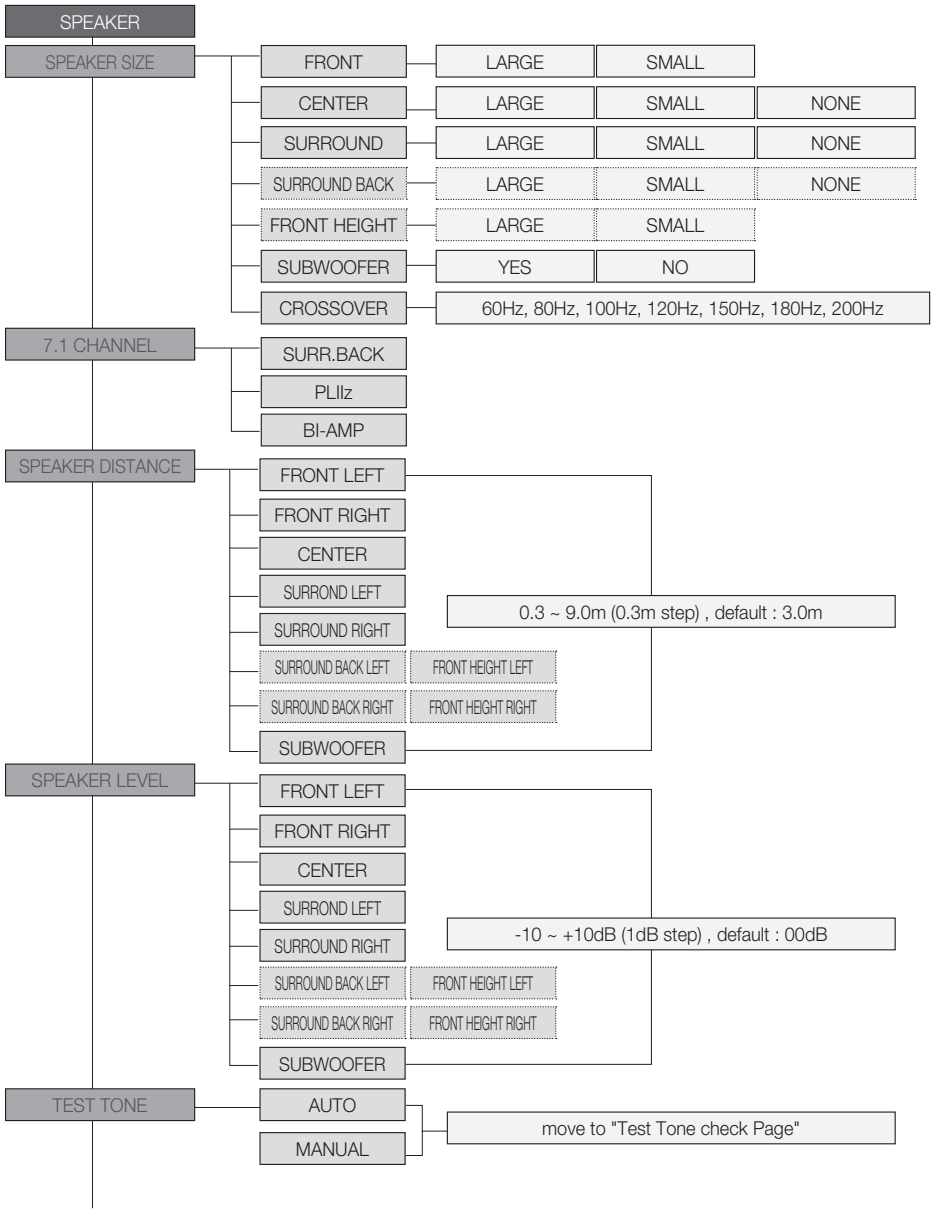

NOTE

- If Dolby Pro Logic IIz is set to On, the Surround Back speaker (SBL/SBR) is changed to the Front Height Speaker (FHL/FHR).

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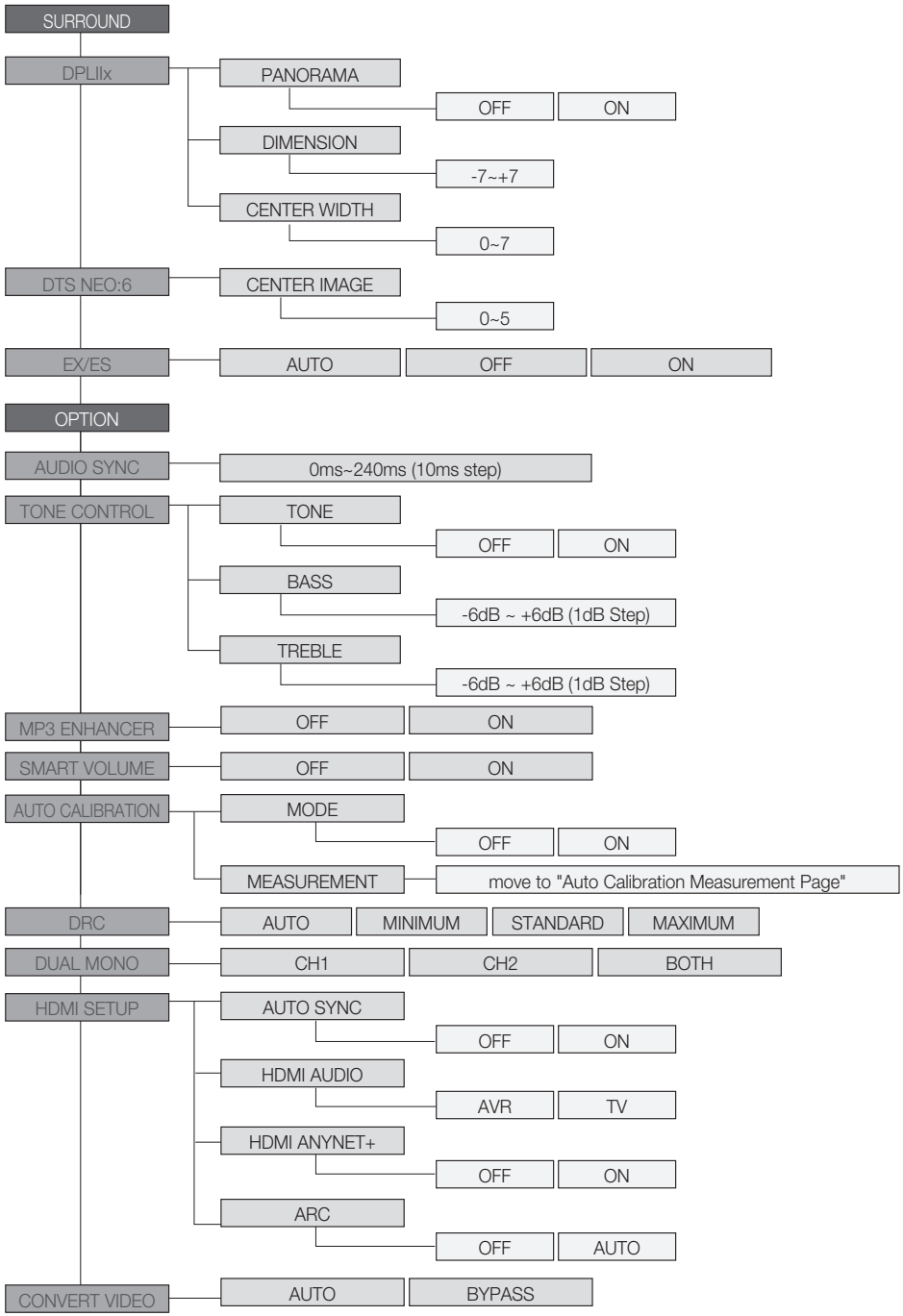
Setup



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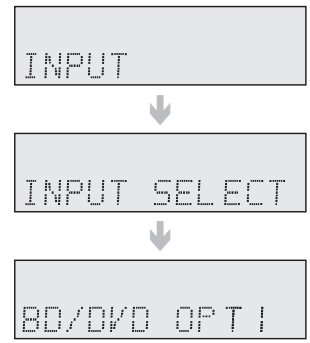
Selecting a Source Device And Connection Jack (Digital Audio In)

Select the external devices you have connected to the receiver.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the **ENTER** button to select **INPUT**.
3. Press the **ENTER** button to select **INPUT SELECTION**.
4. Press the ▲▼ buttons to select a desired jack.
   - Devices switch as follows; BD/DVD, SAT, CD



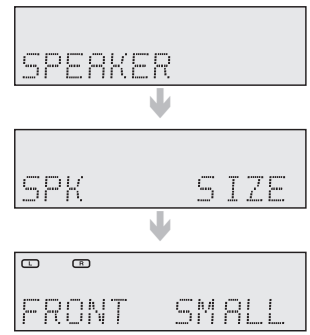
NOTE

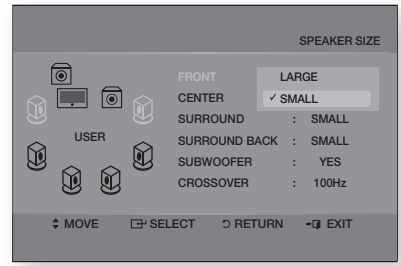
- You can also use the **SETUP**, ∧,∨, **ENTER**, **RETURN** buttons on the front of your AV Receiver.

Setting the Speaker Size

Signal outputs and frequency response from the speaker will be adjusted according to your speaker configuration and whether certain speakers are used or not.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SPEAKER**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **SPK SIZE**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the speaker you want, and then press the **ENTER** button.
   - Each time you press the ▲▼ buttons, FRONT→ CENTER → SURR → SBACK(DPLIIx) / FRONTH(DPLIIz) → → SUBW → CROVR will be selected in turn.
5. Press the ▲▼ buttons to set the mode (LARGE, SMALL etc.) for the selected speaker.
6. Repeat steps 2-5 to set the mode for each speaker.





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Setup

- To exit setup mode -

- Press the **SETUP/MENU** or **EXIT** button on the remote control.
  SETUP OFF appears on the display and Setup Mode is exited.

Setting the Speaker

SPEAKER	Possible Settings	Default Setting
FRONT (Front)	LARGE, SMALL	SMALL
CENTER (Centre)	LARGE, SMALL, NONE	SMALL
SURR (Surround)	LARGE, SMALL, NONE	SMALL
SBACK (Surround Back)	LARGE, SMALL, NONE	SMALL
FRONTH (Front Height)	LARGE, SMALL	SMALL
SUBW (Subwoofer)	YES, NO	YES
CROVR (Crossover Frequency)	60, 80, 100,120, 150, 180, 200(Hz)	100Hz

- LARGE : Select when using large speakers. You can listen to full range sound.
- SMALL : Select this when using small speakers.
- NONE : Select when no speaker is used.
- YES (subwoofer) : Select when using the subwoofer speaker.
- NO (subwoofer) : Select when not using the subwoofer speaker.
- CROVR : Select the crossover frequency for the best bass response in your speakers.

✎ **NOTE**

- You can also use the **SETUP**, **∧,∨, ENTER**, **RETURN** buttons on the front of your AV Receiver.
- When the Front speaker is only set to LARGE, you can select LARGE of other speakers.
- When the Surround speaker is set to LARGE, you can select LARGE of SBACK (Surround Back) speaker.
- When the 7.1 CHANNEL is set to PLIIz, you can not select NONE of surround speaker and front height speaker.
- You can also change the crossover frequency by using the **CROSS OVER**, **<**, **>** buttons on the remote control.

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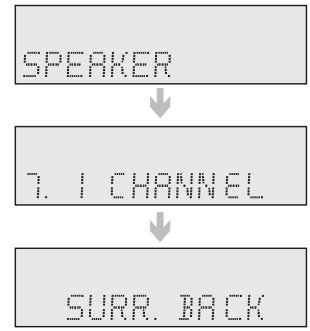
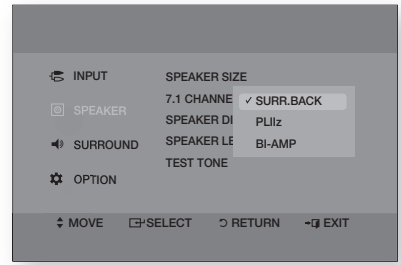
Connection Setting For Surround Back

Settings for the surround back speaker differ depending on the connection method and installation site of the speaker to be connected. You must configure the 7.1 CHANNEL settings according to the connected speaker before you listen to music properly.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SPEAKER**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **7.1 CHANNEL**, and then press the **ENTER** button.
4. Press the ▲▼ to select a proper setting for the surround back speaker.
   - **SURR.BACK** : Select this if you want to install the surround back speaker in the default settings. With this setting, you can enable the Dolby Pro Logic IIx mode.
   - **PLIIz** : Select this if you want to install the surround back speaker in the top front corner. With this setting, you can enable the Dolby Pro Logic IIz mode.
   - **BI-AMP** : Select this if you want to connect the Bi-Amp compliant speaker to the surround back port. With this setting, you can enable the Bi-Amp feature.





NOTE

- Depending on the 7.1 CHANNEL settings, the surround back speaker or front height speaker menus may not be activated or may differ in the speaker menu: SPEAKER SIZE, SPEAKER LEVEL, SPEAKER DISTANCE.
- Depending on your setting, you may not use different features simultaneously. If you set SURR-BACK, for instance, you cannot use the following features: PLIIz and BI-AMP.

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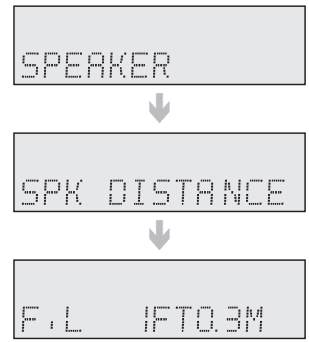
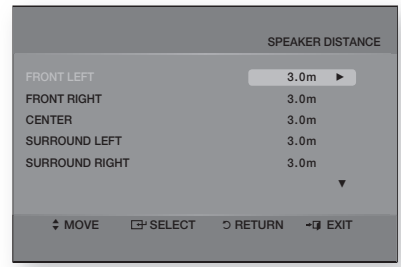
Setting the Speaker Listening Distance

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the centre and surround speakers.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SPEAKER**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **SPK DISTANCE**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the speaker you want.
   - Each time you press the ▲▼ buttons, F.L → F.R→ CEN → S.L → S.R → SBL → SBR → S.W will be selected in turn.
5. Press the ◄ ► buttons to set the Speaker Distance.
   - For the FRONT LEFT, FRONT RIGHT, CENTER, SURR. LEFT, SURR. RIGHT, SURRBACK.LEFT, SURRBACK.RIGHT and SUBWOOFER Speakers, you can set the distance from the speaker to listening position between 1ft ~ 30ft (0.3~9.0m) in intervals of 1ft (0.3m).





- Setting Speaker Distance -

Set the distance from the speaker to listening position in intervals of 1ft(0.3m).

- F.L (front left) : 0.3 ~ 9.0m
- F.R (front right) : 0.3 ~ 9.0m
- S.L (surround left) : 0.3 ~ 9.0m
- S.R (surround right) : 0.3 ~ 9.0m
- CEN (centre) : 0.3 ~ 9.0m
- SW (subwoofer) : 0.3 ~ 9.0m
- SBL (surround back left) : 0.3 ~ 9.0m
- SBR (surround back right) : 0.3 ~ 9.0m
- FHL (front height left) : 0.3 ~ 9.0m
- FHR (front height right) : 0.3 ~ 9.0m

✎ **NOTE**

- If the listening position is beyond the range of the speaker distance setup, set the speaker distance to the maximum.
- If Dolby Pro Logic IIz is set to On, the Surround Back speaker (SBL/SBR) is changed to the Front Height Speaker (FHL/FHR).

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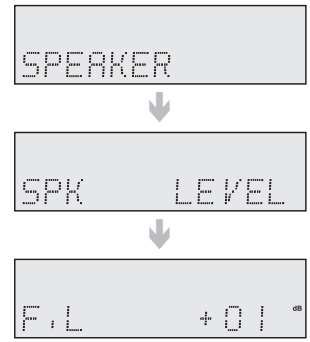
Setting the Speaker Level

You can set the balance and level of speakers.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SPEAKER**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **SPK LEVEL**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the speaker you want.
   - Each time you press this button, F.L → F.R→ CEN → S.L → S.R → SBL → SBR → S.W will be selected in turn.
5. Press the ◄ ► buttons to set the Speaker Level mode.
   - You can adjust it from -10 to +10dB in 1 step increments.
   - The sound gets quieter at -10dB and louder at +10dB.



- Setting Speaker Level -

- F.L (front left) : -10 ~ +10dB
- F.R (front right) : -10 ~ +10dB
- S.L (surround left) : -10 ~ +10dB
- S.R (surround right) : -10 ~ +10dB
- CEN (centre) : -10 ~ +10dB
- SW (subwoofer) : -10 ~ +10dB
- SBL (surround back left) : -10 ~ +10dB
- SBR (surround back right) : -10 ~ +10dB
- FHL (front height left) : -10 ~ +10dB
- FHR (front height right) : -10 ~ +10dB

NOTE

- If Dolby Pro Logic IIz is set to On, the Surround Back speaker (SBL/SBR) is changed to the Front Height Speaker (FHL/FHR).
- You can also change the subwoofer level by using the **SUBWOOFER**, **<**, **>** buttons on the remote control.

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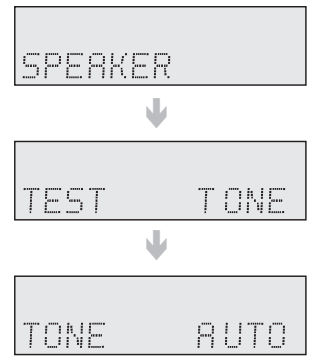
Setting the Test Tone

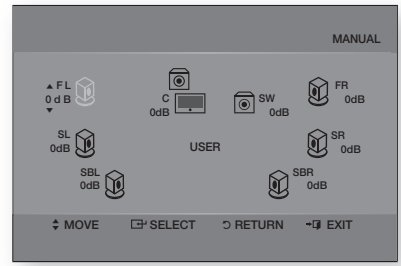
Use the test tone to check the speaker connection status or level.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SPEAKER**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **TEST TONE**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the option you want, and then press the **ENTER** button.
   - **AUTO** : Test signal will be automatically output as follows; F.L → CEN → S.W → F.R → S.R → SBR → SBL → S.L.
     - During test tone output, press the ▲▼ buttons to adjust the speaker output level from -10 to +10 dB by 1 step.
   - **MANUAL** : Enables you to adjust the output level of the speaker manually.



1) Press the **ENTER** button to select the speaker you want.
   Each time you press the **ENTER** button, F.L → CEN → S.W → F.R → S.R → SBR → SBL→ S.L will be selected in turn.

2) Press the ▲▼ buttons to set the Test Tone mode you want.
   You can adjust the speaker output level from -10 to +10dB by 1 step.
   The sound gets quieter at -10dB and louder at +10dB.



- Test Tone Output -

- F.L (front left) : -10 ~ +10dB
- F.R (front right) : -10 ~ +10dB
- S.L (surround left) : -10 ~ +10dB
- S.R (surround right) : -10 ~ +10dB
- CEN (centre) : -10 ~ +10dB
- S.W (subwoofer) : -10 ~ +10dB
- SBL (surround back left) : -10 ~ +10dB
- SBR (surround back right) : -10 ~ +10dB

- To stop test tone -

- Press the **SETUP/MENU** button once.
  SETUP OFF appears on the display and test tone stops.

✎ **NOTE**

- In the Dolby Pro Logic IIz mode, test signal will be automatically output as follows : F.L → FHL → CEN → S.W → FHR → F.R → S.R → S.L.

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Setting Dolby Pro Logic Mode

This mode provides up to 7.1 channel sound from 2 channel sources, or provides 7.1 channel sound from 5.1 channel sources for music or movie mode.

Press the **PROLOGIC** button on the remote control.

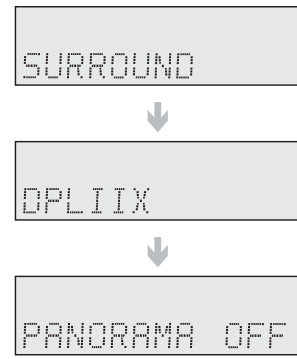
- **MOVIE** : Adds realism to the movie soundtrack.
- **MUSIC** : Provides up to 7.1 channel surround sound for digital, analogue or existing stereo sources.
- **GAME** : Enhances the excitement of the game's sound.
- **MATRIX** : You will hear up to 7.1 channel surround sound.
- **PL (Pro Logic)** : You will experience a surround effect with 5.1 channel surround sound.
- **OFF** : Output the original signal as it is without applying the sound field effect or any other sound effect.

Surround Setup

Setting Dolby Pro Logic IIx

This function works only in Dolby Pro Logic IIx MUSIC mode.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SURROUND**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **DPLIIx**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the option you want, and then press the **ENTER** button.
   - **PANORAMA :** Press the ▲▼ buttons to select ON or OFF. (This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.)
   - **DIMENSION** : Press the ◄ ► buttons to set from -7 to 7. (Incrementally adjusts the sound field (DSP)from the front or surround.)
   - **C- WIDTH :** Press the ◄ ► buttons to set from 0 to 7. (This sets the width of the centre sound image. The higher the setting, the less sound comes from the centre speaker.)



NOTE

- PANORAMA, DIMENSION and CENTER WIDTH settings are enabled only if the Dolby Pro Logic Mode is set to MUSIC.
- You cannot use Dolby Pro Logic IIx mode for multi channel signals such as Dolby Digital, Dolly Digital +, Dolby true HD, DTS, DTS-HD Master Audio.
- Pro Logic works only for PCM audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.
- When Dolby Pro Logic IIz is set ON, Dolby Pro Logic IIx can not be used.

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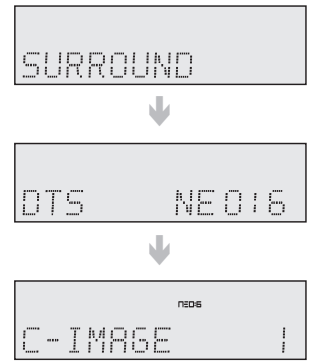
Setting NEO:6 Mode

You can play back 2 channel sound over 5.1 or 7.1 channels when enjoying music or a movie.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SURROUND**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **DTS NEO:6**, and then press the **ENTER** button.
4. Press the **ENTER** buttons to set the C-IMAGE mode you want. Press the ◄ ► buttons to set the **C-IMAGE** from 0 to 5. This parameter adjusts the centre image through the front and centre speakers. "5" is the wider.



Using NEO:6 Mode

Press the **NEO:6** button on the remote control.

- **MUSIC** : When listening to music, you can experience sound effects as if you are listening to the actual performance.
- **CINEMA** : Adds realism to the movie soundtrack.
- **OFF** : Output the original signal as it is without applying the sound field effect or any other sound effect.

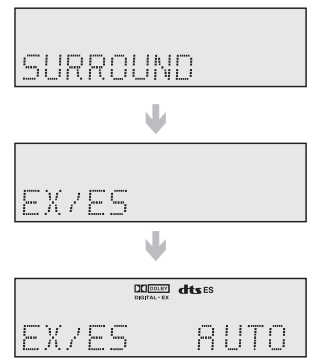
✎ **NOTE**

- NEO:6 works only for 2-ch audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.

Setting EX/ES Mode

When surround back speakers are connected, you can listen to 7.1 multi-channel sound using the built-in Dolby Digital Surround EX or DTS ES decoder. This function works when a Dolby Digital or DTS source (such as a DVD player) is input, and does not work with L.PCM and Dolby Digital 2 channel sources.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **SURROUND**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **EX/ES**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to set the EX/ES mode you want.
   - **AUTO :** If the unit receives an audio signal that it can recognize, it will select an optimal decoder for playback in 7.1 channels. If the amplifier does not recognize the audio signal, it will not play in 7.1 channel automatically.
   - **OFF :** Dolby Digital Surround EX / DTS ES decoder will not be used for playback.
   - **ON :** Dolby Digital or DTS signal will be played in 7.1 channel using Dolby Digital Surround EX / DTS ES decoder.



✎ **NOTE**

- You cannot use DTS-ES without surround back speakers connected.

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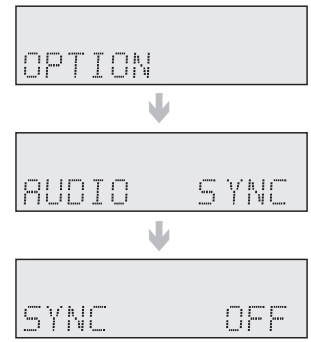
Other Settings

Audio Sync

Video may look slower than the audio if it is connected to a digital TV. If this occurs, adjust the audio delay time to match the video.

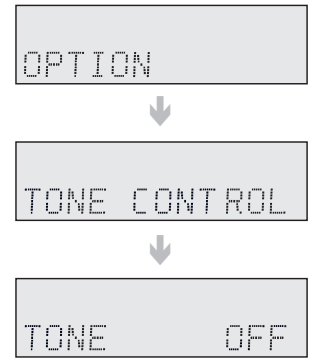
1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **AUDIO SYNC**, and then press the **ENTER** button.
4. Press the ◄ ► buttons to set the AUDIO SYNC Delay Time.
   - You can adjust it from 0 to 240MS in 10MS steps.



Tone Control

This will enable you to adjust the bass and treble level.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **TONE CONTROL**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **TONE**, and then press the **ENTER** button.
5. Press the ▲▼ buttons to select ON or OFF you want, and then press the **ENTER** button.
   - If it is set to **TONE OFF**, the Tone Control function will be disabled.
6. Press the ▲▼ buttons to set the Tone Control mode you want.
   - BASS & TREBLE : Press the ◄ ► buttons to set from -6 to 6.
   - Each time you press this button, TONE → BASS → TREBLE will be selected in turn.
   - You can adjust it from -6 to +6dB by 1 step.
   - The sound gets quieter at -6dB and louder at +6dB.



NOTE

- The Tone Control function can be applied to the front channels only.

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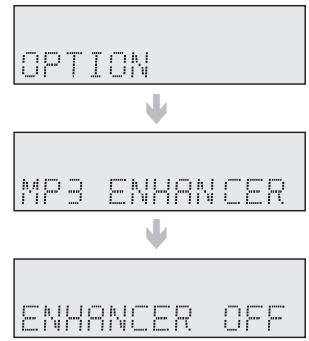
MP3 Enhancer

This also helps enhance your sound experience (ex. mp3 music). Use this if you want to hear better sound from a low quality mp3 source.

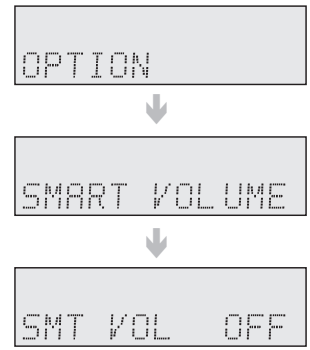
1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **MP3 ENHANCER**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **ON** or **OFF.**



Smart Volume

This will regulate and stabilize the volume level against a drastic volume change when changing channels or during a scene transition.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **SMART VOLUME**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **ON** or **OFF.**



Auto Calibration Setup

By setting the calibration just once when you relocate or install the unit, you can have the unit automatically recognize the distance between speakers, levels between channels, and frequency characteristics to create a 7.1-channel sound field optimized for your environment.

- Before Setting -

1. Plug the ASC microphone into the **ASC MIC** jack.
2. Place the ASC microphone at the listening position.
3. Press the **ASC** button on the front panel, and then press the **ENTER** button.

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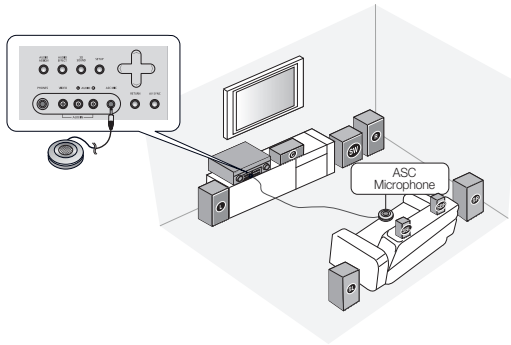
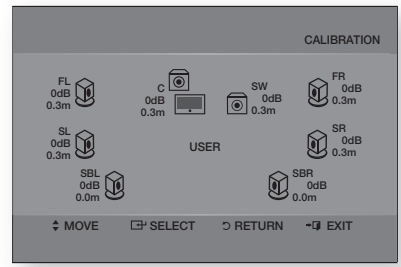
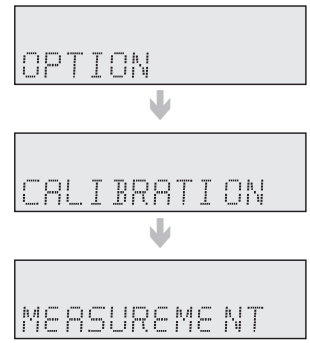




1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **AUTO CALIBRATION**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **MEASUREMENT**, and then press the **ENTER** button.
   - To create the optimal 7.1 channel sound field, the selections are in the following sequence:
     L → C → R → SR → SBR → SBL → SL → SW
   - **MODE ON :** The auto calibration mode is set to on.
     MODE OFF: The auto calibration mode is set to off.



To cancel the Auto Calibration setup.

This will be automatically reverted if you press the **RETURN** button.

- If auto calibration error occurs, see "Auto Calibration Error List" on page 63.

NOTE

- Setting the calibration takes about 3 minutes.
- Because the volume level of the tone is fixed during the Auto Calibration Setup, you cannot adjust the volume using the volume control.
- If the ASC microphone is disconnected during the Auto Calibration Setup, the setup will be cancelled.
- You can also press the **ASC** button on the remote control to use this function.
- If Dolby Pro Logic ||z is set to ON, the selection are in the following sequence :
  FL → CEN → FR → SR → FHR → FHL → SL → SW.

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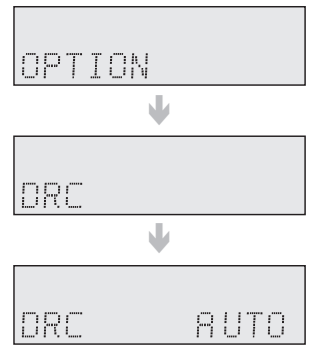
DRC Setup

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night. DRC compresses the audio to make the loudest sounds quieter and the quietest sounds louder.

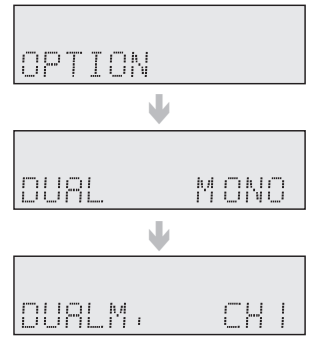
1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **DRC**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to set the DRC you want.
   - **AUTO** : The Dynamic Range Control will be set automatically based on the information provided by the Dolby TrueHD Soundtrack.
   - **MIN** : Sets DRC effect to minimum.
   - **STD** : Sets DRC effect to standard.
   - **MAX** : Sets DRC effect to maximum.



Dual Mono Setup

Dual mono programs have two independent mono channels.
You can use this function when dual mono programs are played.
When you use this function, select audio channels CH1, CH2 or both Channel.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **DUAL MONO**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the DUAL MONO option you want.
   - **CH1** : Channel 1 is heard only.
   - **CH2** : Channel 2 is heard only.
   - **BOTH** : Both channels are heard from front speakers.



HDMI Setup

Use this if you want to receive audio from HDMI connected external devices.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.

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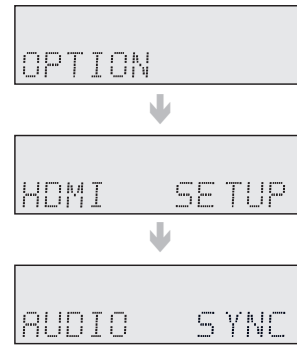
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **HDMI SETUP**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to set the HDMI Setup mode you want, and then press the **ENTER** button.
5. Press the ▲▼ buttons to set you want.



- **AUTO SYNC** : ON, OFF
  The AV receiver can be set to automatically correct any delay between the video and the audio, based on the data from the connected TV.
  - ON : HDMI Sync is enabled.
  - OFF : HDMI Sync is disabled.
- **HDMI AUDIO** : AVR(Audio Video Receiver), TV
  This preference determines whether audio received at the HDMI IN is output by the HDMI OUT. If you want to listen to audio from an HDMI connected external device through your HDMI connected TV's speakers, set it to TV. Otherwise, leave it on AVR to listen to audio from the A/V receiver.
  - AVR : HDMI audio is not output
  - TV : HDMI audio is output
- **HDMI ANYNET+** : ON, OFF
  Anynet+ is a function that enables you to control other Samsung Devices with your Samsung TV's remote control.
  - ON : Anynet+ is enabled.
  - OFF : Anynet+ is disabled.
- **ARC** : AUTO , OFF
  If you use the HDMI cable to connect between HDMI IN of an Audio Return Channel-compliant TV and HDMI OUT (ARC) of the main unit, you can listen to the TV sound through the main unit connected speaker without the further connection.
  - AUTO : The audio signal from the TV can be sent to the HDMI OUT of the main unit.
  - OFF : Turn TV ARC funtion off.

✎ **NOTE**

- HDMI Audio is enabled only if both the HDMI INPUT and HDMI OUT are connected properly and working normally.
- HDMI Sync function works only if your HDMI compatible TV supports this function.
- If HDMI ANYNET+ is set to OFF, TV ARC will be set to OFF accordingly that cannot switch to AUTO.
- The ARC function will be active only via the HDMI OUT terminal.

Video Convert Setup

You can convert the incoming composite or component video signal into a maximum quality of the connected TV if you output the converted video via HDMI OUT.

1. Press the **SETUP/MENU** button on the remote control.
   - Each time the button is pressed, the mode switches between **INPUT** and **SETUP OFF**.

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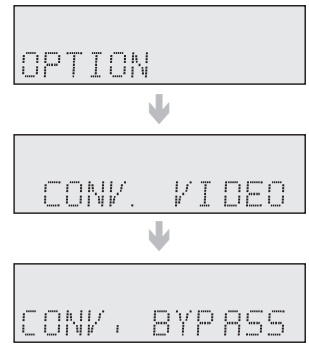
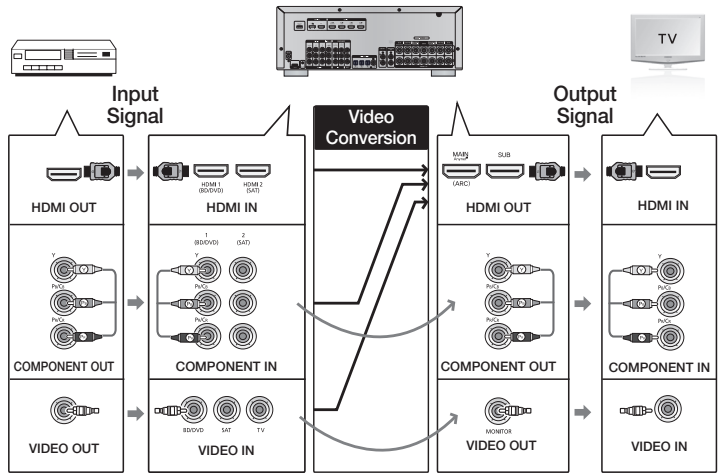
2. Press the ▲▼ buttons to select **OPTION**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **CONV. VIDEO**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **BYPASS** or **AUTO**.
   - **BYPASS** : Converts the input video source into the digital counterpart without changing the resolution.
   - **AUTO** : Converts the incoming video signal before outputting in the maximum resolution that the connected TV supports.



Video conversion flow according to the connected port

As shown in the illustration, if the unit's HDMI Out is connected to a TV or monitor, the analogue video source (composite or component) from the video device is processed for up-conversion automatically for HDMI output.
If connected to a TV or monitor through Composite or Component ports, corresponding analogue signal will be output respectively, without any conversion. In case if the unit and video source device is connected in multiple methods (HDMI, Component and Composite video) at the same time: Video input signal is automatically selected in the order of **Component Video → Composite Video**.



NOTE

- This enables upconverting up to a quality of 1080p.
- Auto conversion is not applied to a video source incoming from HDMI IN port.

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Using the Surround Modes

Using the S.DIRECT Button

Output the original signal as it is without applying the sound field effect or any other sound effect.

Press the **S.DIRECT** button.

NOTE

- The screen will display “DIRECT” instead of “S.DIRECT”.

Input Signal and Surround Chart

o = active, – = inactive

Input Signal	Surround Mode	Output Channel					Display Information	
		L/R	C	SL SR	SBL SBR	SUBW	Signal Format	Channel Status
Dolby Digital	Dolby Digital	O	O	O	–	O	Digital + Dolby Digital	L, C, R, SL, SR, SW
Dolby Digitital EX	Dolby Digital EX	O	O	O	O	O	Digital +Dolby Digital EX	L, C, R, SL, SR ,SBL, SBR, SW
	Dolby Digital + ProLogic IIx	O	O	O	O	O	Digital + Dolby Digital + ProLogic IIx	L, C, R, SL, SR ,SBL, SBR, SW
	Dolby Digital + ProLogic IIz	O	O	O	O (Height)	O	Digital + Dolby Digital + ProLogic IIz	L, C, R, SL, SR, H, SW
Dolby Digital Plus	Dolby Digital Plus	O	O	O	O	O	Digital + Dolby Digital Plus	L, C, R, SL, SR ,SBL, SBR, SW
Dolby TrueHD	Dolby TrueHD	O	O	O	O	O	Dolby TrueHD	L, C, R, SL, SR ,SBL, SBR, SW
DTS (5.1-ch)	DTS Surround	O	O	O	–	O	DTS	L, C, R, SL, SR, SW
DTS-ES	DTS Digital + ProLogic IIx	O	O	O	O	O	DTS + ProLogic IIx	L, C, R, SL, SR ,SBL, SBR, SW
DTS 96/24	DTS Digital + ProLogic IIz	O	O	O	O (Height)	O	DTS + ProLogic IIz	L, C, R, SL, SR ,SBL, SBR, SW
	DTS-ES	O	O	O	O	O	DTS ES	L, C, R, SL, SR ,SBL, SBR, SW
	DTS 96/24	O	O	O	–	O	DTS 96/24	L, C, R, SL, SR, SW
DTS-HD	DTS-HD Master Audio	O	O	O	O	O	DTS-HD MSTR	L, C, R, SL, SR ,SBL, SBR, SW
	DTS-HD High Resolution	O	O	O	O	O	DTS-HD	L, C, R, SL, SR, SBL, SBR, SW
LPCM Multi-Channel	Multi-Channel	O	O	O	O	O	Digital + LPCM	L, C, R, SL, SR, SBL, SBR, SW
	Multi-Channel	O	O	O	O (Height)	O	Digital + LPCM	L, C, R, SL, SR, H, SW
2-ch PCM	Stereo	O	–	–	–	O	Digital + LPCM	L, R, SW
	ProLogic IIx	O	O	O	O	O	Digital + LPCM + Dolby Digital + ProLogic IIx	L, C, R, SL, SR ,SBL, SBR, SW
	ProLogic IIz	O	O	O	O (Height)	O	Digital + LPCM + Dolby Digital + ProLogic IIz	L, C, R, SL, SR, H, SW
	NEO:6	O	O	O	O	O	Digital + LPCM + DTS + NEO:6	L, C, R, SL, SR ,SBL, SBR, SW
	SFE	O	O	O	O	O	Digital + LPCM + LIVE SURR	L, C, R, SL, SR ,SBL, SBR, SW
Analogue 2-ch	Stereo	O	–	–	–	O	Analogue	L, R, SW
	ProLogic IIx	O	O	O	O	O	Analogue + Dolby Digital + ProLogic IIx	L, C, R, SL, SR ,SBL, SBR, SW
	ProLogic IIz	O	O	O	O (Height)	O	Analogue + Dolby Digital + ProLogic IIz	L, C, R, SL, SR, H, SW
	NEO:6	O	O	O	O	O	Analogue + DTS NEO:6	L, C, R, SL, SR ,SBL, SBR, SW
	SFE	O	O	O	O	O	Analogue + LIVE SURR	L, C, R, SL, SR ,SBL, SBR, SW

- **L/R** : front speaker (left/right)
  C : centre speaker
  SL/SR : surround speaker (left/right)
  SBL/SBR : surround back speaker (left/right)
  H = FHL/FHR : front height speaker (left/right)
  SW : subwoofer
- **LIVE SURR** : LIVE SURROUND

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✎ **NOTE**

- Channel status displays are dependent on the speaker configuration.
- SFE mode works with 2-ch signals.
- If Dolby Pro Logic IIz is set to On, the Surround Back speaker(SBL/SBR) is changed to the Front Height Speaker(FHL/FHR), Dolby true HD, Dolby plus, DTS-HD Audio ,SFE and NE0:6 will be output 5.1 channel.
- ProLogic IIx and ProLogic IIz works only audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.

Using the AUDIO EFFECT Button On the Front of the Main Unit

Selecting the DPLIIx mode

1. Press the **AUDIO EFFECT** button to select **DPLIIx** mode.
   - Each time you press this button, **PROLOGIC II x → NEO:6 → LIVE SURR. → 3D SOUND** will be selected in turn.
2. Press the **<**, **>** button.
   - Each time you press the **<**, **>** button, **MUSIC → GAME → MATRIX → PL → PL OFF → MOVIE** will be selected in turn.
   - If you turn Dolby Pro Logic IIz on, HEIGHT → PL OFF will be selected in turn.
   - You can also select the DPLIIx mode by pressing the **PROLOGIC** button on the remote control.

Selecting the NEO:6 mode

1. Press the **AUDIO EFFECT** button briefly to select **NEO:6** mode.
   - Each time you press this button, **PROLOGIC II x → NEO:6 → LIVE SURR. → 3D SOUND** will be selected in turn.
2. Press the **<**, **>** button.
   - Each time you press the **<**, **>** button, **MUSIC → CINEMA → OFF** will be selected in turn.
   - You can also select the NEO:6 mode by pressing the **NEO : 6** button on the remote control.

Selecting the DSP mode

1. Press the **AUDIO EFFECT** button to select **DSP** mode.
   - Each time you press this button, **PROLOGIC II x → NEO:6 → LIVE SURR. → 3D SOUND** will be selected in turn.
2. Press the **<**, **>** button.
   - Each time you press the **<**, **>** button, **STEREO → HALL 1→ HALL 2 → J.CLUB → CHURCH → ROCK → CLASSIC → LIVE → GAME → MOVIE → CONCERT → STADIUM** will be selected in turn.
   - You can also select the DSP mode by pressing the **DSP** button on the remote control.

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Selecting the 3D SOUND mode

1. Press the **AUDIO EFFECT** button to select **3D SOUND** mode.
   - Each time you press this button, **PROLOGIC II x** → **NEO:6** → **LIVE SURR.** → **3D SOUND** will be selected in turn.
2. Press the **<**, **>** button.
   - Each time you press the **<**, **>** button, **3D SOUND ON** → **3D SOUND OFF** will be selected in turn.
   - You can also select the 3D SOUND mode by pressing the **3D SOUND** button on the remote control.

NOTE

- The 3D sound effect will not be available for Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio and DTS-HD High Resolution Audio.
- You cannot use Dolby Pro Logic IIx mode for Analogue multi channel signals, LPCM multi channel signals from HDMI, Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio and DTS-HD High Resolution Audio.
- Pro Logic works with the audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.
- The 3D sound effect will not be available for FM.

Using the SUBWOOFER button

You can set the subwoofer Level.

1. Press the **SUBWOOFER** button.
2. Press the ◄ ► buttons to select Subwoofer LEVEL under the Display with S.W. (The display disappears automatically.)

- Setting the Subwoofer Level-

- SW (Subwoofer) : -10 ~ +10dB

Listening to the Radio

You can listen to the radio by using either automatic or manual tuning.

1. Press the **INPUT SELECT** button on the remote control to select **FM**.
2. Select a frequency (radio broadcast).
   - Preset tuning :
     Press the ⏮,⏭ buttons on the remote control to select the preset frequency.
   - Manual tuning 1 (Automatic tuning):
     Press and hold the **TUNING/CH** (∨,∧) buttons on the remote control to automatically tune in a frequency.
   - Manual tuning 2 :
     Press the **TUNING/CH** (∨,∧) buttons on the remote control to increase or decrease the frequency step by step.

NOTE

- You can also use the **SELECT** (∨,∧) button on the main uint to change the radio frequency.

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Operation

To Listen in Mono/Stereo

Press the **MO/ST** button on the remote control.

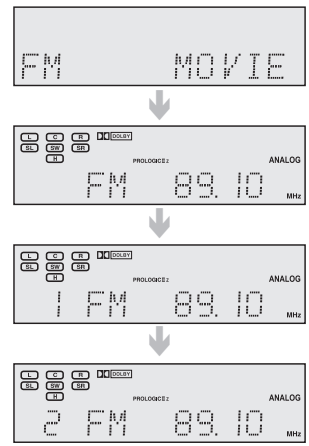
- Each time you press this button, **STEREO** or **MONO** will be selected in turn.
- If you select **MONO** in an area with weak reception, it will help to reduce noise.
- This function works only with the remote control.

Presetting Radio Stations

You can preset up to 15 FM stations.

E.g.: Setting station FM 89.10 in preset 2.

1. Press the **INPUT SELECT** button on the remote control to select **FM**.
2. Press the **TUNING/CH** (∨,∧) buttons on the remote control to select 89.10.
   - Refer to step 2 above to tune in automatically and manually.
3. Press the **TUNER MEMORY** button on the main unit.
   - You can also use the **TUNER MEMORY** button on the remote control.
   - Tuner number will blink on the display.
4. Press the **TUNING/CH** (∨,∧) buttons on the remote control to select preset 2.
   - You can select from presets 1 to 15.
5. Press the **TUNER MEMORY** button on the main unit.
   - Tuner number will disappear and station 89.10 will be saved in preset 2.
6. To preset other stations, repeat steps 2 to 5.



To Listen to Preset Station

- Press the **TUNING MODE** button to select **PRESET** and press the **SELECT** (∨,∧) buttons.

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About RDS Broadcasting

Using the RDS (Radio Data System) to Receive FM Stations

RDS allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS service, the RDS indicator lights up on the display.

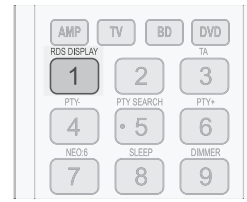
Description on RDS function

- PTY (Program Type) : Displays the type of program currently being broadcast
- PS NAME (Program Service Name) : Indicates the name of broadcasting station and is composed of 8 characters.
- RT (Radio Text) : Decodes the text broadcast by a station (if any) and is composed of maximum 64 characters.
- CT (Clock Time) : Decodes the real time clock from the FM frequency.Some stations may not transmit PTY, RT or CT information therefore this may not be displayed in all cases.
- TA (Traffic Announcement) : When "TA ON" displays, it shows that the traffic announcement is in progress.

NOTE

- RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.

To Show the RDS Signals



You can see the RDS signals the station sends on the display.

Press the RDS DISPLAY button while listening to an FM station.

- Each time you press the button, the display change to show you the following information :
  PS NAME → RADIO TEXT → CLOCK/TIME → FREQUENCY
- PS (Program Service) : While searching, <PS NAME> appears and then the station names will be displayed. <NO PS NAME> appears if no signal is sent.
- RT(RadioText) : while searching, <RADIO TEXT> appears and then text messages the station sends will be displayed. <NO RT> appears if no signal is sent.
- Frequency : station frequency (non-RDS service)

About characters shown in the display

When the display shows PS,or RT signals,the following characters are used.

- The display window cannot differentiate upper case and lower case letters and always uses upper case letters.
- The display window cannot show accented letters, <A,> for instance, may stands for accented <A's> like <À, Â, Ä, Á, Å and Ã.>

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PTY (Program Type) Indication and PTY-SEARCH Function

One of the advantages of the RDS service is that you can locate a particular kind of program from the preset channels by specifying the PTY codes.

To search for a program using the PTY codes

Before you start, remember...

- The PTY Search is only applicable to preset stations.
- To stop searching any time during the process, press PTY SEARCH while searching.
- There is a time limit in doing the following steps. If the setting is cancelled before you finish, start from step 1 again.
- When pressing the buttons on the primary remote control, make sure that you have selected the FM station using the primary remote control.

1. Press the **PTY SEARCH** button while listening to an FM station.
2. Press the **PTY-** or **PTY+** button until the PTY code you want appears on the display.
   - The display gives you the PTY codes described to the right.
3. Press the **PTY SEARCH** button again, while the PTY code selected in the previous step is still on the display.
   - The centre unit searches 29 preset FM stations, stops when it finds the one you have selected, and tunes in that station.

Display	Program Type
NEWS	News including an announced opinion and report
AFFAIRS	Several matters including a current incident, documentary, discussion and analysis.
INFO	Information including weights and measures, returns and forecast, matters interesting the customer, medical information, etc.
SPORT	Sports
EDUCATE	Education
DRAMA	Drama-Radio serial, etc.
CULTURE	Culture-National or local culture including the religious problem, social science, language, cinema, etc.
SCIENCE	Natural science and technology
VARIED	Others-Speech, amusing program (quiz, game), interview, comedy and satirical play, etc.
POP M	Pop music
ROCK M	Rock music
M.O.R.M	Current contemporary music considered to be “easy listening.”

Display	Program Type
LIGHT M	Light classical music- Classical music and instrumental and chorus music
CLASSICS	Heavy classical music-Orchestra music, symphony, chamber music and opera
OTHER M	Other music - Jazz, R&B country music
WEATHER	Weather
FINANCE	Finance
CHILDREN	Children’s programmes
SOCIAL	Social affairs
RELIGION	Religion
PHONE IN	Phone in
TRAVEL	Travel
LEISURE	Leisure
JAZZ	Jazz Music
COUNTRY	Country Music
NATION M	National Music
OLDIES	Oldies Music
FOLK M	Folk Music
DOCUMENT	Documentary

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Using an iPod

You can enjoy playback of your iPod using the supplied remote control.

Listening to Music (iPod audio function)

You can play music files stored in the iPod player by connecting it to the AV receiver.

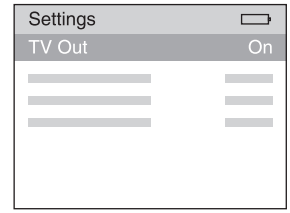
1. Connect the iPod dock connector to the iPod jack on the AV Receiver.
2. Place the iPod in the dock.
   - Your iPod is automatically turned on.
3. Press the **INPUT SELECT** button on the remote control to select **IPOD AUDIO** mode.
4. Press the **PLAY** button on the remote control to play.
   - The AV receiver starts playing from the first track of the iPod player.
5. You can use the remote control to control simple playback functions such as the **PLAY**, **PAUSE**, **STOP**, **SKIP (⏮,⏭)** buttons.

✎ **NOTE**

- See page 28 for compatible iPods.
  Compatibility depends on the software version of your iPod.
- You can also select iPod by pressing the **iPod** button on the remote control.

Watching a Movie (iPod video function)

You can play video files stored in the iPod player on a TV by connecting it to the AV receiver.



<iPod Screen>

1. Connect the iPod dock connector to the iPod jack on the AV receiver.
2. In the iPod screen, move to **Videos > Settings** and set the **TV Out** option to **On**.
3. Place the iPod in the dock.
4. Press the **INPUT SELECT** button on the remote control to select **IPOD VIDEO** mode.
5. Set the AV IN option of the TV connected to the AV receiver to COMPOSITE.

Follow the iPod onscreen guide through the following steps.

6. Press the ▲,▼ buttons on the remote control to select **Videos** and press the **ENTER** button.
7. Press the ▲,▼ buttons on the remote control to select **Movies** and press the **ENTER** button.

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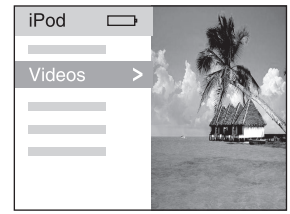
8. Press the ▲,▼ buttons to select the file to play and press the **ENTER** button.
   - The iPod's video files will be played on the TV screen.
9. You can use the remote control to control simple playback functions such as the **PLAY**, **PAUSE**, **STOP**, **SKIP (⏮,⏭)** buttons.
   - If you press the **PREV** button after the playback, the player will move to the start screen of the current file.
   - Press the **STOP** button to stop playing and return to the list screen.
   - Press the **RETURN** button to return to the previous menu.



<iPod Screen>

NOTE

- Before you can play the video files in the iPod player, you must connect the Audio/Video terminals of the TV to the receiver using the Composite (A/V) cable.
- See page 28 for compatible iPods.
  Compatibility depends on the software version of your iPod.
- When the current file is played to the end, the next file will not be played automatically.
  To play the next file, select a file to play in the list screen of the iPod player.
- No other screen than the playback one will appear on the TV screen. Check other screens on the iPod player.

Convenient Functions

Sleep Timer Function

You can set the time that this unit will shut itself off.

Press the **SLEEP** button.

- SLEEP : OFF → 10M → 20M → 30M → 60M → 90M → 120M → 150M will be selected in turn.

To check sleep timer

Press the **SLEEP** button.

- The remaining time before this unit will shut itself off is shown on the display.
- Pressing the button again changes the sleep time from what you set previously.

To cancle sleep timer

- Press the **SLEEP** button until **SLEEP OFF** appears on the display.

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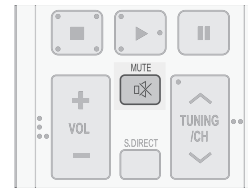
Mute Function

This function is useful when answering a doorbell or telephone call.

Press the **MUTE** button.

- MUTE appears on the display.



To output sound again

Press the **MUTE** button again or press the Volume button.

- MUTE will disappear and sound will output.

Adjust the Display

You can adjust the brightness of the display.

Press the **DIMMER** button.

- Each time you press this button, the brightness changes as follows : Dark → Bright.

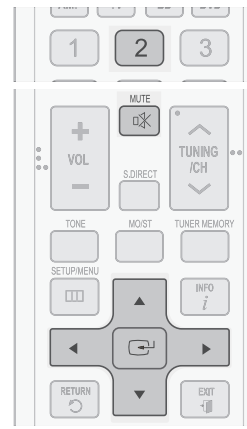
NOTE

- SLEEP, Mute and the Adjust Display functions can only be operated with the remote control.

Reset Function

When the Power is on,

1. Press the **MUTE** button.
   - **MUTE** appears on the display.
2. Press the **2** button five times and then press the **ENTER** button.
   - **INITIAL : NO** appears on the display.
3. Press the ◄ ► buttons to select **YES**.
   - The unit will turn off after 5 seconds.



When the Power is Off,

1. Press and hold the **TUNER MEMORY** button on the front of your AV Receiver for longer than 5 seconds.
   - **POWER LED** will blink one time.

NOTE

- Using the RESET function will erase all stored settings.
- Do not use this unless necessary.

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Using Headphones

Use headphones (not supplied) for private listening pleasure.
Connect the headphones to the headphone (PHONES) jack and listen to music.

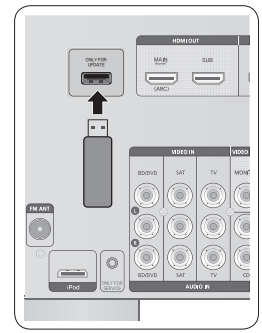
✎ **NOTE**

- Do not turn the volume up too high when you use headphones as it may damage your hearing.

Software Upgrade

Samsung may offer upgrades for AV Receiver's firmware in the future.

Please visit Samsung.com or contact the Samsung call centre to receive information about downloading upgrades and using a USB drive. Upgrades will be possible by connecting a USB drive to the USB port located on your AV Receiver.



✎ **NOTE**

- Insert a USB drive containing the firmware upgrade into the USB port on the back of the main unit.
- Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The main unit will turn off automatically after completing the firmware upgrade.
  When software is upgraded, settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.
- If you failed software upgrade, it is strongly recommended whole USB data format to FAT16 and retry software upgrade.
- The NTFS USB File System can not be supported.
- Depending on the manufacturer, the USB may not be supported.

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Miscellaneous

Operating your TV with the Remote Control

1. Press the **POWER** button to turn on the TV.
2. Press the **TV** button to set the remote to TV mode.
3. Point the remote control toward the TV.
4. While holding down the **POWER** button, enter the code corresponding to your brand of TV.
   - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.
   - If the code matches the TV's code, the TV will be turned off.
5. If TV is turned on or off when you press the **POWER** button of the remote control, the setting is completed.
   - You can use the TV POWER, VOLUME, CHANNEL, MENU and Numeric buttons (0~9).

NOTE

- The remote control may not work on some brands of TVs. Also, some operations may not be possible depending on your brand of TV.
- The remote control will work with Samsung TVs by default.

TV Brand Code List

Brand	Code
Admiral (M.Wards)	56, 57, 58
A Mark	01, 15
Anam	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14
AOC	01, 18, 40, 48
Bell & Howell (M.Wards)	57, 58, 81
Brocsonic	59, 60
Candle	18
Cetronic	03
Citizen	03, 18, 25
Cinema	97
Classic	03
Concerto	18
Contec	46
Coronado	15
Craig	03, 05, 61, 82, 83, 84
Croslex	62
Crown	03
Curtis Mates	59, 61, 63
CXC	03
Daewoo	02, 03, 04, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 48, 59, 90
Daytron	40
Dynasty	03
Emerson	03, 15, 40, 46, 59, 61, 64, 82, 83, 84, 85
Fisher	19, 65
Funai	03
Futuretech	03
General Electric (GE)	06, 40, 56, 59, 66, 67, 68
Hall Mark	40

Brand	Code
Hitachi	15, 18, 50, 59, 69
Inkel	45
JC Penny	56, 59, 67, 86
JVC	70
KTV	59, 61, 87, 88
KEC	03, 15, 40
KMC	15
LG (Goldstar)	01, 15, 16, 17, 37, 38, 39, 40, 41, 42, 43, 44
Luxman	18
LXI (Sears)	19, 54, 56, 59, 60, 62, 63, 65, 71
Magnavox	15, 17, 18, 48, 54, 59, 60, 62, 72, 89
Marantz	40, 54
Matsui	54
MGA	18, 40
Mitsubishi/ MGA	18, 40, 59, 60, 75
MTC	18
NEC	18, 19, 20, 40, 59, 60
Nikei	03
Onking	03
Onwa	03
Panasonic	06, 07, 08, 09, 54, 66, 67, 73, 74
Penney	18
Philco	03, 15, 17, 18, 48, 54, 59, 62, 69, 90
Philips	15, 17, 18, 40, 48, 54, 62, 72
Pioneer	63, 66, 80, 91
Portland	15, 18, 59
Proton	40
Quasar	06, 66, 67
Radio Shack	17, 48, 56, 60, 61, 75
RCA/Proscan	18, 59, 67, 76, 77, 78, 92, 93, 94

Brand	Code
Realistic	03, 19
Sampo	40
Samsung	00, 15, 16, 17, 40, 43, 46, 47, 48, 49, 59, 60, 98
Sanyo	19, 61, 65
Scott	03, 40, 60, 61
Sears	15, 18, 19
Sharp	15, 57, 64
Signature 2000 (M.Wards)	57, 58
Sony	50, 51, 52, 53, 55
Soundesign	03, 40
Spectricon	01
SSS	18
Sylvania	18, 40, 48, 54, 59, 60, 62
Symphonic	61, 95, 96
Tatung	06
Techwood	18
Teknika	03, 15, 18, 25
TMK	18, 40
Toshiba	19, 57, 63, 71
Vidtech	18
Videch	59, 60, 69
Wards	15, 17, 18, 40, 48, 54, 60, 64
Yamaha	18
York	40
Yupiteru	03
Zenith	58, 79
Zonda	01
Dongyang	03, 54

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Miscellaneous

Operating your DVD or BD Player with the Remote Control

1. Press the **POWER** button to turn on the DVD (BD) player.
2. Press the **BD/DVD** button on the remote control to set the remote to DVD (BD) mode.
3. Point the remote control toward the DVD (BD).
4. While holding down **POWER** button, enter the code corresponding to your brand of DVD (BD).
   - If there is more than one code listed for your DVD (BD) in the table, enter one at a time to determine which code works.
   - If the code matches the DVD (BD)'s code, the DVD (BD) will be turned off.
5. If DVD (BD) is turned on or off when you press the **POWER** button of the remote controller, the setting is completed.
   - You can use DVD (BD) POWER, PLAY, PAUSE, STOP, SKIP, MENU and Numeric buttons (0~9).

✎ **NOTE**

- The remote control may not work on some brands of DVD.
  Also, some operations may not be possible depending on your brand of DVD.
- The remote control will work with Samsung DVD (BD) by default.

DVD Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number
DENON	003, 032	ONKYO	004, 014	TOSHIBA	004, 018
DOONOON	019	OPTIMUS	011	YAMAHA	009, 033
DMTECH	017	PANASONIC	021	ZENITH	004, 024
FISHER	002	PROSCAN	006	TAEGWANG	026
GE	006	PHILIPS	004, 023	PS2	028
HARMAN/KARDON	012	PIONEER	007, 011, 022, 025	X-BOX	029
JVC	010, 013	RCA	006	APEX	030
KENWOOD	008	SAMSUNG	000, 027	Marantz	031
LG	001	SANYO	002		
MAGNAVOX	004	SONY	015, 020		
MITSUBISHI	005, 016	THETA DIGITAL	011		

BD Player Brand Code List

Brand	Code Number
SAMSUNG	000, 001, 002, 003, 004

✎ **NOTE**

- The remote control will control Samsung BD players only.

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Other Information

Troubleshooting

Before requesting service, please check the following.

Symptom	Check	Remedy
The unit will not turn on.	• Is the power cord plugged into the outlet?	• Connect the power plug to the outlet.
A function does not work when the button is pressed.	• Is there static electricity in the air?	• Disconnect the power plug and connect it again.
Sound is not produced.	• Are the speakers and external components connected properly? • Is the Mute function on? • Is the volume set to minimum? • Is the Speaker Size set incorrectly to NONE?	• Connect them correctly. • Press the **MUTE** button to cancel the function. • Adjust the volume. • Refer to pages 36 to select LARGE, SMALL or YES.
Picture does not appear on a TV when the function is selected.	• Is the external component connected properly?	• Connect it correctly.
Remote controller does not work.	• Are the batteries drained? • Is the distance between remote control and main unit too great?	• Replace with new batteries. • Operate at close distance.
The sound from the left/ right channels is reversed.	• Are the left/right speaker or left/right input/output cables connected properly?	• Check the left/right channel and connect it/them correctly.
Can't receive radio broadcasts.	• Is FM antenna connected properly?	• Connect the antenna correctly. • If the input strength of antenna signal is weak, install the FM antenna in a place with good reception.
There is no sound from surround speakers.	• Are the surround speakers connected properly? • Is SURR (surround) incorrectly set to NONE in the Speaker Size? • Is surround mode set to stereo?	• Refer to page 16 to connect them properly. • Refer to page 36 to select LARGE or SMALL. • Refer to pages 49 ~ 51 to select proper Surround Mode.
There is no sound from surround back speakers	• Are the surround back speakers connected properly? • Is SBACK (Surround Back) set to NONE in the Speaker Size? • Is Surround Mode set to EX/ES?	• Refer to page 16 to connect them properly. • Refer to page 36 to select LARGE or SMALL. • Refer to page 42 to set Surround Mode to EX/ES.

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Other Information

Symptom	Check	Remedy
Can't select EX/ES mode.	• Is SBACK (Surround Back) set to NONE in the Speaker Size? • Is the input signal selected properly?	• Refer to page 36 to select LARGE or SMALL. • Use a 7.1 channel external component.
Can't select Dolby Pro Logic IIx mode.	• Is the input signal selected properly?	• Only 2 channel signal can select Dolby Pro Logic IIx mode. (ex:Dolby Digital, PCM, 2 channel analogue input signal.)
Can't select NEO:6 mode.	• Is the input signal selected properly?	• Use PCM and Analogue input signal.
There is no sound when playing a DTS encoded DVD.	• Is Digital input selected?	• Check whether the DVD player is properly connected and refer to page 31 to select the digital input.

Product Protection Function

Heat protection

• The protection function will come on if the main unit or power transformer overheats.

"PROTECTION" will appear in the display .

This function will come on :
- If speaker terminal is shorted
- If speaker cable is shorted

If there is no problem when you turn the unit on again after turning it off, PROTECTION mark will disappear on the display and the unit will work properly.

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Auto Calibration Error List

Error No.	Auto Calibration Error Message on OSD
E02 NO MIC	Connect the calibration microphone.
E03 NOISY	Keep quiet during the measurement.
E04 MIC LEVL	The speaker are too close to the microphone. Install all speakers and the calibration microphone at the proper location.
E05 NO FRONT	Connect the front speaker correctly.
E07 LEVL OVR	Install all speakers and the calibration microphone at the proper location.
E08 DIST OVR	Some speakers are too far from calibration microphone. Install all speakers and the calibration microphone at the proper location.
E13 TIME OVR	Unplug and re-plug the power cable. Then, perfrom the measurement again.
E14 CODE ERR	Unplug and re-plug the power cable. Then, perfrom the measurement again.

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Other Information

Specifications

GENERAL	Weight	6.2 kg
	Dimensions (W x H x D)	429.2 x 165.1 x 360.6 mm
	Operating temperature range	+5°C~+35°C
	Operating humidity range	10%~75%
FM TUNER	Frequency response	87.5~108.0MHz
	Usable sensitivity	12dBf
	S/N ratio	MONO/STEREO 55/55dB
	Distortion	MONO/STEREO 0.3/0.8%
	Stereo separation	30dB
	Tuner output level	1kHz, 75kHz Dev
AMPLIFIER	Rated output	20Hz~20kHz/THD = 0.9%
	Front speaker (left+right)	6 Ω 120W/CH
	Centre speaker	6 Ω 120W/CH
	Surround speaker (left+right)	6 Ω 120W/CH
	Surround back speaker (left+right)	6 Ω 120W/CH
	Subwoofer speaker	8 Ω 150W/CH
	Input sensitivity/impedance	450mV/47kΩ
	S/N ratio (analogue input)	80dB
	Separation (1kHz)	60dB
FREQUENCY RESPONSE	Analogue input	20Hz~20kHz(±3dB)
	Digital input/96kHz PCM	20Hz ~44kHz(±3dB)
HDMI	Input	Compatible 1080p
	Output	Compatible 1080p
VIDEO OUTPUT	TV format	NTSC/PAL
	Input level/impedance	1Vp-p/75 Ω
	Output level/impedance	1Vp-p/75 Ω
	Video frequency response	5Hz to 10kHz(-3dB)
	S/N Ratio	60dB

* S/N Ratio, Distortion, Separation and Usable sensitivity are based on measurement using AES (Audio Engineering Society) guidelines.

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.
- Design and specifications are subject to change without prior notice.
- For the power supply and Power Consumption, refer to the label attached to the product.

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Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Area	Contact Centre ☎	Web Site
▪ North America		
Canada	1-800-SAMSUNG (726-7864)	www.samsung.com
Mexico	01-800-SAMSUNG (726-7864)	www.samsung.com
U.S.A	1-800-SAMSUNG (726-7864)	www.samsung.com
▪ Latin America		
Argentine	0800-333-3733	www.samsung.com
Brazil	0800-124-421 / 4004-0000	www.samsung.com
Chile	800-SAMSUNG (726-7864)	www.samsung.com
Colombia	01-8000112112	www.samsung.com
Costa Rica	0-800-507-7267	www.samsung.com
Dominica	1-800-751-2676	www.samsung.com
Ecuador	1-800-10-7267	www.samsung.com
El Salvador	800-6225	www.samsung.com
Guatemala	1-800-299-0013	www.samsung.com
Honduras	800-7919267	www.samsung.com
Jamaica	1-800-234-7267	www.samsung.com
Nicaragua	00-1800-5077267	www.samsung.com
Panama	800-7267	www.samsung.com
Peru	0-800-777-08	www.samsung.com
Puerto Rico	1-800-682-3180	www.samsung.com
Trinidad & Tobago	1-800-SAMSUNG (726-7864)	www.samsung.com
Venezuela	0-800-100-5303	www.samsung.com
▪ Europe		
Albania	42 27 5755	-
Austria	0810 - SAMSUNG (7267864, € 0.07/min)	www.samsung.com
Belgium	02-201-24-18	www.samsung.com/be (Dutch) www.samsung.com/be_fr (French)
Bosnia	05 133 1999	-
Bulgaria	07001 33 11	www.samsung.com
Croatia	062 SAMSUNG (062 726 7864)	www.samsung.com
Czech	800-SAMSUNG (800-726786) Samsung Zrt., česká organizační složka, Oasis Florenc, Sokolovská394/17, 180 00, Praha 8	www.samsung.com
Denmark	70 70 19 70	www.samsung.com
Finland	030 - 6227 515	www.samsung.com
France	01 48 63 00 00	www.samsung.com
Germany	01805 - SAMSUNG (726-7864 € 0,14/Min)	www.samsung.com
Hungary	06-80-SAMSUNG (726-7864)	www.samsung.com
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Kosovo	+381 0113216899	-
Luxemburg	261 03 710	www.samsung.com
Macedonia	023 207 777	-
Montenegro	020 405 888	-
Netherlands	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	www.samsung.com
Norway	815-56 480	www.samsung.com
Poland	0 801 1SAMSUNG (172678) / 022-607-93-33	www.samsung.com
Portugal	80820-SAMSUNG (726-7864)	www.samsung.com
Rumania	1. 08010 SAMSUNG (72678) - doar din rețeaua Romtelecom, tarif local 2. 021.206.01.10 - din orice rețea, tarif normal	www.samsung.com
Serbia	0700 Samsung (0700 726 7864)	www.samsung.com
Slovakia	0800-SAMSUNG (726-7864)	www.samsung.com
Spain	902-1-SAMSUNG (902 172 678)	www.samsung.com
Sweden	0771 726 7864 (SAMSUNG)	www.samsung.com
Switzerland	0848-SAMSUNG (7267864, CHF 0.08/min)	www.samsung.com/ch www.samsung.com/ch_fr/(French)
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Estonia	800-7267	www.samsung.com
▪ CIS		
Russia	8-800-555-55-55	www.samsung.com
Georgia	8-800-555-555	-
Armenia	0-800-05-555	-
Azerbaijan	088-55-55-555	-
Kazakhstan	8-10-800-500-55-500 (GSM: 7799)	www.samsung.com
Uzbekistan	8-10-800-500-55-500	www.samsung.com
Kyrgyzstan	00-800-500-55-500	www.samsung.com
Tadjikistan	8-10-800-500-55-500	www.samsung.com
Ukraine	0-800-502-000	www.samsung.ua www.samsung.com/ua_ru
Belarus	810-800-500-55-500	-
Moldova	00-800-500-55-500	-
▪ Asia Pacific		
Australia	1300 362 603	www.samsung.com
New Zealand	0800 SAMSUNG (0800 726 786)	www.samsung.com
China	400-810-5858 / 010-6475 1880	www.samsung.com
Hong Kong	(852) 3698 4698	www.samsung.com/hk www.samsung.com/hk_en/
India	3030 8282 / 1800 110011 / 1800 3000 8282 / 1800 266 8282	www.samsung.com
Indonesia	0800-112-8888 / 021-5699-7777	www.samsung.com
Japan	0120-327-527	www.samsung.com
Malaysia	1800-88-9999	www.samsung.com
Philippines	1-800-10-SAMSUNG(726-7864) / 1-800-3-SAMSUNG(726-7864) / 1-800-8-SAMSUNG(726-7864) / 02-5805777	www.samsung.com
Singapore	1800-SAMSUNG (726-7864)	www.samsung.com
Thailand	1800-29-3232 / 02-689-3232	www.samsung.com
Taiwan	0800-329-999	www.samsung.com
Vietnam	1 800 588 889	www.samsung.com
▪ Middle East		
Bahrain	8000-4726	www.samsung.com
Egypt	08000-726786	www.samsung.com
Jordan	800-22273	www.samsung.com
Morocco	080 100 2255	www.samsung.com
Oman	800-SAMSUNG (726-7864)	www.samsung.com
Saudi Arabia	9200-21230	www.samsung.com
Turkey	444 77 11	www.samsung.com
U.A.E	800-SAMSUNG (726-7864)	www.samsung.com
▪ Africa		
Nigeria	0800-SAMSUNG (726-7864)	www.samsung.com
South Africa	0860-SAMSUNG (726-7864)	www.samsung.com

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.
This product and its electronic accessories should not be mixed with other commercial wastes for disposal.